



November 11, 2008

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**DATA DELIVERABLE FOR NON-ROUTINE GROUNDWATER SAMPLING EVENT
AT ALAMEDA SITE IR35 AOC23 – SUMMER 2008**

Innovative Technical Solutions Inc. (ITSI) conducted a non-routine groundwater sampling event at the request of U.S. Navy to support the ongoing Remedial Design/Remedial Action activities at the IR35 - AOC23 (IR35) site. This non-routine sampling round was performed in June 2008, and consisted of groundwater sampling activities at four monitoring wells across IR35 (Figure 1). Groundwater sampling activities were conducted in accordance with the procedures and methods described in the Alameda Basewide Final Work Plan (Shaw Environmental Inc. [Shaw], 2004) and the ITSI SAP Addendum 02 (ITSI, 2004).

Groundwater sampling activities were conducted on June 6, 2008. A low flow monitoring and purging technique using a peristaltic pump was employed to sample all four wells. In order to sample groundwater in a state of equilibrium with the aquifer, indicator parameters of pH, temperature, specific conductivity, ORP, dissolved oxygen, and turbidity were monitored approximately every five minutes until three successive readings were within the required stabilization criteria as specified on the purge logs prior to sampling. Once stabilization was achieved, groundwater samples were collected at a low flow rate directly from the dedicated tubing at each well. Collected samples were transferred to pre-preserved laboratory supplied containers, immediately labeled, and chilled with ice in a cooler. Field records for sampling activities are included in Appendix 1.

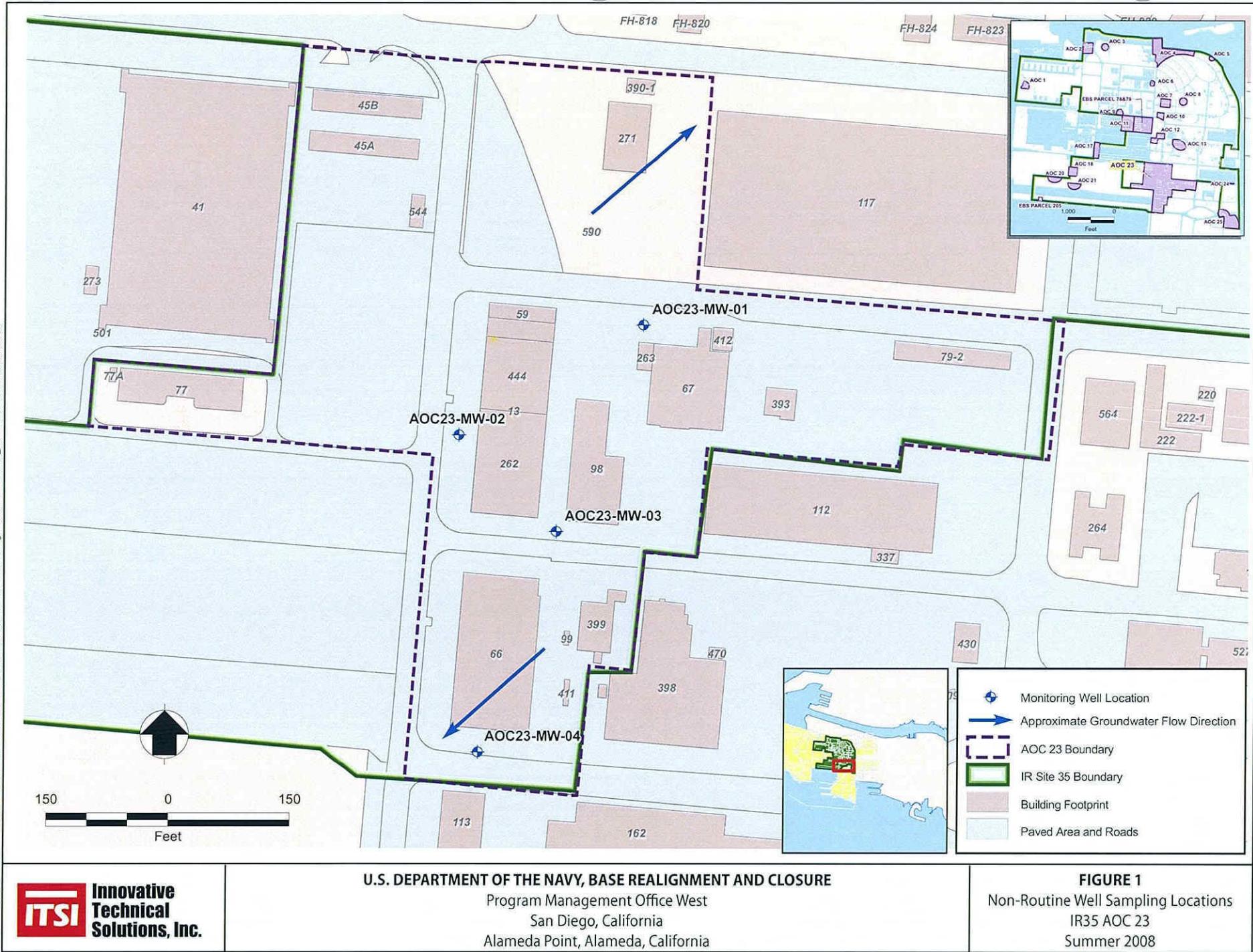
Groundwater samples collected during Summer 2008 event at IR35 were submitted to Curtis and Tompkins, Ltd. (C&T), in Berkeley, California, for laboratory analysis of Volatile Organic Compounds (VOCs) by EPA Method 8260B. A summary of laboratory analytical results is presented in Table 1. Laboratory analytical reports and chain-of-custodies are included in Appendix 2.





FIGURES







TABLES



TABLE 1
DATA SUMMARY FOR IR SITE 35 WELLS SAMPLED IN JUNE 2008
Alameda Point, Alameda, California

<i>Well Identification Number:</i>	MW01	MW02	MW03	MW04
	<i>Date Sampled:</i>	6/6/2008	6/6/08	6/6/08
Volatile Organics by GC/MS (EPA 8260B):				
1,1,1,2-Tetrachloroethane	<0.5	<0.5	<0.5	<0.5
1,1,1-Trichloroethane	<0.5	<0.5	<0.5	<0.5
1,1,2,2-Tetrachloroethane	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichloroethane	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethene	<0.5	<0.5	<0.5	<0.5
1,1-Dichloropropene	<0.5	<0.5	<0.5	<0.5
1,2,3-Trichlorobenzene	<0.5	<0.5	<0.5	<0.5
1,2,3-Trichloropropane	<0.5	<0.5	<0.5	<0.5
1,2,4-Trichlorobenzene	<0.5	<0.5	<0.5	<0.5
1,2,4-Trimethylbenzene	<0.5	<0.5	<0.5	<0.5
1,2-Dibromo-3-Chloropropane	<2.0	<2.0	<2.0	<2.0
1,2-Dibromoethane	<0.5	<0.5	<0.5	<0.5
1,2-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5
1,2-Dichloroethane	<0.5	<0.5	<0.5	<0.5
1,2-Dichloropropane	<0.5	<0.5	<0.5	<0.5
1,3,5-Trimethylbenzene	<0.5	<0.5	<0.5	<0.5
1,3-Dichlorobenzene	0.3 J	0.3 J	0.2 J	0.2 J
1,3-Dichloropropane	<0.5	<0.5	<0.5	<0.5
1,4-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5
2,2-Dichloropropane	<0.5	<0.5	<0.5	<0.5
2-Butanone	<10	<10	<10	<10
2-Chlorotoluene	<0.5	<0.5	<0.5	<0.5
2-Hexanone	<10	<10	<10	<10
4-Chlorotoluene	<0.5	<0.5	<0.5	<0.5
4-Methyl-2-Pentanone	<10	<10	<10	<10
Acetone	<10	1.4 J	<10	<10
Benzene	<0.5	<0.5	<0.5	<0.5
Bromobenzene	<0.5	<0.5	<0.5	<0.5
Bromochloromethane	<0.5	<0.5	<0.5	<0.5
Bromodichloromethane	<0.5	<0.5	<0.5	<0.5
Bromoform	<1.0	<1.0	<1.0	<1.0
Bromomethane	<1.0	<1.0	<1.0	<1.0
Carbon Disulfide	<0.5	<0.5	<0.5	<0.5
Carbon Tetrachloride	<0.5	<0.5	<0.5	<0.5
Chlorobenzene	<0.5	<0.5	<0.5	<0.5
Chloroethane	<1.0	<1.0	<1.0	<1.0
Chloroform	<0.5	<0.5	<0.5	<0.5
Chloromethane	<1.0	<1.0	<1.0	<1.0
cis-1, 2-Dichloroethene	<0.5	<0.5	<0.5	0.2 J
Dibromochloromethane	<0.5	<0.5	<0.5	<0.5
Dibromomethane	<0.5	<0.5	<0.5	<0.5
Ethyl tert-Butyl Ether (ETBE)	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	<0.5	<0.5	<0.5	<0.5
Freon 12	<1.0	<1.0	<1.0	<1.0
Hexachlorobutadiene	<0.5	<0.5	<0.5	<0.5

TABLE 1
DATA SUMMARY FOR IR SITE 35 WELLS SAMPLED IN JUNE 2008
Alameda Point, Alameda, California

<i>Well Identification Number:</i> <i>Date Sampled:</i>	MW01	MW02	MW03	MW04
	6/6/2008	6/6/08	6/6/08	6/6/08
Isopropyl Ether (DIPE)	<0.5	<0.5	<0.5	<0.5
Isopropylbenzene	<0.5	<0.5	<0.5	<0.5
m,p-Xylenes	<0.5	<0.5	<0.5	<0.5
Methyl tert-Amyl Ether (TAME)	<0.5	<0.5	<0.5	<0.5
Methylene Chloride	<10	<10	<10	<10
MTBE	<0.5	<0.5	<0.5	<0.5
Naphthalene	<2.0	<2.0	<2.0	<2.0
n-Butylbenzene	<0.5	<0.5	<0.5	<0.5
o-Xylene	<0.5	<0.5	<0.5	<0.5
para-Isopropyl Toluene	<0.5	<0.5	<0.5	<0.5
Propylbenzene	<0.5	<0.5	<0.5	<0.5
sec-Butylbenzene	<0.5	<0.5	<0.5	<0.5
Styrene	<0.5	<0.5	<0.5	<0.5
tert-Butyl Alcohol (TBA)	<10	<10	<10	<10
tert-Butylbenzene	<0.5	<0.5	<0.5	<0.5
Tetrachloroethene	<0.5	<0.5	<0.5	<0.5
Toluene	<0.5	<0.5	<0.5	<0.5
trans-1, 2-Dichloroethene	<0.5	0.4 J	<0.5	<0.5
Trichloroethene	<0.5	<0.5	<0.5	<0.5
Trichlorofluoromethane	<1.0	<1.0	<1.0	<1.0
Vinyl Chloride	<0.5	<0.5	<0.5	<0.5

NOTES:

All results in micrograms per liter ($\mu\text{g/L}$).

J= Estimated value

Bold indicates detected results

<= Indicates not detected at the reporting limit indi-



APPENDIX 1

FIELD REPORTS

[REDACTED]



DAILY FIELD NOTES

Job Name: Alameda Basewide Summer 08
Contractor: ITSI

Date: 6/6/08 Page 1 of 1
Weather: 5cm, cool
HD/5B

- 0630: arrived on site attended morning safety meeting.
- 0700: calibrated field instruments, loaded trucks.
- 0800: moved to site 35 and located site wells.
- Well MW01 was not at the map indicated location.
- 0830: set up and started surge at well MW02.
- The Horiba V-22 meter showed very unstable parameter readings. Called field office for a replacement meter. Re-started surge with a YSI 556 meter - continued to stabilize well.
- 0934: collected sample MW02-A7515
- 1000: set up and started surge on well MW03.
- 1030: collected sample MW03-A7516
: Set up and started surge on well MW04.
- 1135: collected sample MW04 A7517
- 1200: Lunch
- 1230: Made another attempt to locate well MW01.
- Found well approx 50yds from map location.
- 1300: set up and started surge on well MW01
- 1325: collected sample MW01-A7517 plus 45/1150 volume.
- 1400: Moved back to field office and ac'd samples
- Cleaned up truck.
- 1500: completed paperwork.

Signature: Gray Fobee

Date: 6/6/08

Site 35, MW01

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM
Event: Summer 2008

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Purge Date: 6-6-08

Weather: Cloudy, Rain Wind Hot

Temperature: 64°

Sample Team: Team 1 Team 2 Team 3

Personal Air Monitoring:	Meter ID#	Results
PID:	104463	8
LEL:		8
O2:		20.9

Measured Well Depth: 14.49 ft.
 Depth to Water (DTW): 5.11 ft.
 Calculated height of water in well
 (T=Well Depth - Depth to Water): 9.38 ft.

One Casing Volume= [T x (vol/ft) x 3.785]: 5.78 liters
 Casing Diameter (D): 2 inch
 Verified Depth to Water: 5.11 ft.
 Field calculated -- 1 casing vol.: 5.78 liters
 Field calculated -- 3 casing vol.: 17.34 liters

FIELD PARAMETERS	Volume Removed				Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	(+/- 10% or if <1, 0.3)	DO (Y/N)	Odor	DTW	Comments				
	Purge Time	Liters	Casing Volumes	Pumping Rate														
Verify Calibration					(ltr/min)	(+/- 1 °C)	(+/- 3%)	(+/- 0.1)	NA	(+/- 10%)	(Y/N)	ft						
1301	0	0	.03		20.51	1.60	7.41	-19.92	-66.5	1.78	N	S.15						
1306	1.5	.25			20.47	1.58	7.35	-23.84	-171.4	1.28	N	S.19						
1311	3.0	.51			20.74	1.56	7.33	-18.07	-144.1	.97	N	S.27						
1316	4.5	.77			20.95	1.55	7.28	-18.89	-141.2	.85	N	S.30						
1321	7.0	1.21			21.11	1.53	7.20	-18.95	-98.8	.96	N	S.30						
Previous Log readings																		

Sample Date: 6-6-08 Sample Start Time: 1325 Sample End Time: 1327

Pump Collected With: Peristaltic

Volatile Sample Flow Rate: 100 mL/min

Final Depth to Water 5.31

MS/MSD

Equipment Blank Collected:

1/day/team when portable pump (or other non disposable reusable equipment) is used

Trip Blank Collected: TB1-A7458

Complete a Collected Sample Form for each blank collected.

COLLECTED SAMPLE INFORMATION	Ice + Preservative	HCL	NA	HCL	NA	NA	NA	NA	HNO ₃	NA	NaOH + zinc acetate	HNO ₃	HNO ₃	NA	HNO ₃	HNO ₃	NA	NA	NA	TDS		
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-o as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Gross Alpha & Beta	Radium	Radium-228 Isotopes	Radium Isotopes	Radiotracers	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron
	Number of Containers	3	2	2	2	1	2	2	1	1	1	1	1	1	1	2	2	1	1	1	1	
Sample Container	40 ml v	40 ml v	40 ml v	0.5 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.25 L PE	0.25 L PE	0.25 L PE	0.5 L PE	1 L PE	1 L PE	0.25 L A	1 L PE	1 L PE	1 L PE	1 L A	0.25 L PE	
MW01-A7458- A7514	NS	X																				

The order of sample collection above is from left to right. Samples for metals are filtered

Comments:

9 Bottles

Sampler: 50 BD

Site 35, MW02

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Summer 2008

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Weather: Cloudy, Rain, Windy, Hot

Temperature: 57°

Sample Team: Team 1 Team 2 Team 3

Purge Date: 6-6-08

Personal Air Monitoring:

PID: 104463 Results 0

LEL: 0

O2: 20.9

Measured Well Depth: 13.40 ft.

Depth to Water (DTW): 4.12 ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 9.28 ft.

One Casing Volume= [T x (vol/ft) x 3.785]: 5.73 liters

Casing Diameter (D): 2 inch

Verified Depth to Water: 4.12 ft.

Field calculated - 1 casing vol.: 5.73 liters

Field calculated -- 3 casing vol.: 17.18 liters

FIELD PARAMETERS	Volume Removed				Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	(± 10% or d < 1.03)	DO	Odor	DTW	Comments					
	Purge Time	Liters	Casing Volumes	Pumping Rate															
Verify Calibration																			
0824	0	0	.03	19.35	2.45	5.85	86.2	156	1.21	N	4.26								
0829	1.5	.26		19.64	3.17	6.54	74.7	120	.89	N	4.39								
0834	3.0	.52		19.89	1.80	7.09	51.3	67	.84	N	4.51								
0839	4.5	.78		20.50	1.48	7.86	25.5	13	.86	N	4.81								
0844	-	Stop to change meters																	
0909	4.5	.78		19.87	1.33	6.96	10	22.4	1.21	N	4.46								
0914	6.0	1.04		19.73	1.34	7.43	9	-83.0	.87	N	4.58								
0919	7.5	1.30		20.01	1.37	7.45	3	-129.6	.76	N	4.66								
0924	9.0	1.57		20.13	1.38	7.49	0	-147.4	.66	N	4.72								
0929	10.5	1.83		20.18	1.38	7.51	0	-168.1	.61	N	4.83								

Previous Log readings

Sample Date: 6-6-08 Sample Start Time: 0934 Sample End Time: 0936

Pump Collected With: Peristaltic Volatile Sample Flow Rate: 100 mL/min

Final Depth to Water: 4.68 MS/MSD

Equipment Blank Collected:

1/day/team when portable pump (or other non disposable reusable equipment) is used

Trip Blank Collected: 782-A7458

Complete a Collected Sample Form for each blank collected.

COLLECTED SAMPLE INFORMATION	Ice + Preservative	HCl	NA	HCl	NA	NA	NA	NA	NA	NA	NA	NaOH+ zinc acetate	HNO3	HNO3	NA	NA	NA	NA
	WELL ID & SAMPLE TYPE	VOCS	Methane, ethane, propane	TPH-a ss diesel/kerosene	TPH-a ss diesel/kerosene	SVOCs	PCBs	Dioxins/Furans	Hexavalent Chromium	NaOH	---	---	Sulfide	Radium	NA	NA	NA	NA
Number of Containers	3	2	2	2	1	2	2	1	1	1	1	1	2	2	1	1	1	1
Sample Container	40 mL v	40 mL v	40 mL v	0.5 L A	1 L A	1 L A	1 L A	0.5 L PE	0.25 L PE	0.5 L PE	0.25 L PE	0.5 L PE	1 L PE	1 L PE	0.25 L A	1 L PE	1 L PE	0.25 L PE
MW02-A7458-7515 NS	X																	
MS/MSD																		

The order of sample collection above is from left to right. Samples for metals are filtered

Comments:

3 8x3 Bottles

Sampler: SB BD

Site 35, MW03

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Summer 2008

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Purge Date: 6-6-08

Weather: Sunny, Cloudy, Rain, Windy, Hot

Temperature: 65°

Sample Team: Team 1 Team 2 Team 3

Personal Air Monitoring:	Meter ID#	Results	
	PID:	124563	0
LEL:		0	
O2:		20.9	

Measured Well Depth:	14.30	ft.
Depth to Water (DTW):	4.05	ft.
Calculated height of water in well (T=Well Depth - Depth to Water):	10.25	ft.

One Casing Volume = $[T \times (\text{vol/l}) \times 3.785]$: 6.32 liters
 Casing Diameter (D): 2 inch
 Verified Depth to Water: 4.05 ft.
 Field calculated - 1 casing vol.*: 6.32 liters
 Field calculated - 3 casing vol.*: 18.97 liters

FIELD PARAMETERS	Volume Removed				Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO (± 10% or if <1.03)	Odor	DTW	Comments												
	Purge Time	Liters	Casing Volumes	Pumping Rate									(+/- 1 °C)	(+/- 3%)	(+/- 0.1)	NA	(+/- 10%)	(Y/N)	R						
Verify Calibration					(ltr/min)																				
1004	0	0	.03		20.31	1.68	7.80	-1.87	41.0	1.97	N	4.11													
1009	1.5	50.23			20.36	1.69	7.61	-11.06	23.1	1.30	N	4.16													
1014	3.0	100.47			20.68	1.68	7.61	-16.05	23.1	1.29	N	4.18													
1019	4.5	.71			20.80	1.68	7.62	-18.88	22.4	1.30	N	4.20													
1024	6.0	.94			21.10	1.67	7.63	-19.43	24.9	1.29	N	4.21													
Previous Log readings																									

Sample Date: 6-6-08 Sample Start Time: 1030

Sample End Time: 1032

Pump Collected With: Peristaltic

Volatile Sample Flow Rate: 100 mL/min

Final Depth to Water 4.21

MS/MSD DMT 85

Equipment Blank Collected:

1/day/team when portable pump (or other non disposable reusable equipment) is used

Trip Blank Collected: TB1-A7458

Complete a Collected Sample Form for each blank collected.

COLLECTED SAMPLE INFORMATION	Ice + Preservative	HCl	Na	HCl	NA	NA	NA	NA	NO ₃	NA	NaOH	---	---	NaOH+ zinc acetate	HNO ₃	HNO ₃	NA	HNO ₃	HNO ₃	HNO ₃	HNO ₃	NA	NA	NA	TDS
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-Pasgasoline as diesel fuel MO	TPH-S	SVOCs	PAHs	PCBs	Pesticides	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha & Beta	Radium	Radium-226 Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	14-Dioxane	Ferrous Ions	
Number of Containers	3	2	2	2	1	2	2	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	2	1	1
Sample Container	40 mV	40 mV	40 mV	05LA	1LA	1LA	1LA	1LA	0.5L	0.25L	0.5L	0.25L	0.25L	PE	0.5L PE	1 LPE	1 LPE	0.25LA	1 LPE	1 LPE	1 LPE	1 LPE	1 L	0.1L PE	0.25L PE

MW03-A7458
7514

NS

X

The order of sample collection above is from left to right. Samples for metals are filtered.

Comments:

30 Bottles

Sampler: SB BD

Site 35, MW04

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Summer 2008

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Purge Date: 6-6-08

Weather: Sunny, Cloudy, Rain, Windy, Hot

Temperature: 67°

Sample Team: Team 1 Team 2 Team 3

Personal Air Monitoring:		Meter ID#	Results
		PID:	104463
		LEL:	1
O2:		20.9	

Measured Well Depth: 14.01 ft.
 Depth to Water (DTW): 4.30 ft.
 Calculated height of water in well (T=Well Depth - Depth to Water): 9.71 ft.

One Casing Volume= $[T \times (\text{vol/ft}) \times 3.785]$: 5.99 liters
 Casing Diameter (D): 2 inch
 Verified Depth to Water: 4.30 ft.
 Field calculated -- 1 casing vol.*: 5.99 liters
 Field calculated -- 3 casing vol.*: 17.97 liters

FIELD PARAMETERS	Volume Removed				Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments		
	Purge Time	Liters	Casing Volumes	Pumping Rate											
			(ltr/min)	(+/- 3%)											
	Verify Calibration				21.33	3.23	7.48	1907	2.2	1.84	N	4.35			
	1100	0	0	.03	21.76	3.10	7.45	67.7	1.0	1.86	N	4.35			
	1105	1.5	.25		21.70	3.02	7.44	.71	13.1	2.09	N	4.35			
	1110	3.0	.50		21.58	2.79	7.45	-13.25	22.8	2.62	N	4.35			
	1115	4.5	.75		21.73	2.78	7.44	-22.43	26.4	2.29	N	4.35			
	1120	6.0	1.00		21.60	2.80	7.43	-22.87	26.2	2.27	N	4.35			
	1125	7.5	1.25		21.64	2.81	7.43	-23.04	24.8	2.18	N	4.35			
	1130	9.0	1.50												

Previous Log readings

Sample Date: 6-6-08 Sample Start Time: 1135 Sample End Time: 1137 Equipment Blank Collected: Trip Blank Collected: TB1-A458
 Pump Collected With: Peristaltic Volatile Sample Flow Rate: 100 mL/min Complete a Collected Sample Form for each blank collected
 Final Depth to Water: 4.34 MS/MSD

COLLECTED SAMPLE INFORMATION	Ice + Preservative	HCL	NA	HCL	NA	NA	NA	NA	NA	NaOH	zinc acetate	HNO ₃	HNO ₃	NA	HNO ₃	IINO ₃	HNO ₃	NA	NA	NA	TDS
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, propane	TPH as diesel, jet fuel, MO	SVOCs	PCBs	Pesticides	Hexavalent Chromium	Dissolved Metals	Craniide	Nitrate, Nitrite, Chloride, Sulfate	Gross Alpha & Beta	Radium	Tritium isotopes	Radon-222 isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium isotopes	14-Dioxane	Ferrous Iron	
	Number of Containers	3	2	2	2	1	2	2	1	1	1	1	2	2	1	1	1	1	2	1	1
Sample Container	40 mL V	40 mL V	40 mL V	0.5 L A	1 L A	1 L A	1 L A	0.5 L PE	0.25 L PE	0.5 L PE	0.25 L PE	0.25 L PE	1 L PE	1 L PE	0.25 L A	1 L PE	1 L PE	1 L PE	1 L A	0.1 L PE	0.25 L PE
MW04-A7446 517	NS	X																			

The order of sample collection above is from left to right. Samples for metals are filtered

Comments:

3 Bottles

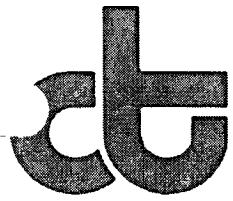
Sample: \$8.00



APPENDIX 2

LABORATORY ANALYTICAL REPORT AND CHAIN-OF-CUSTODY

[REDACTED]



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 203803
ANALYTICAL REPORT

Innovative Technical Solutions, Inc.
2730 Shadelands Drive
Walnut Creek, CA 94598

Project : ALAMEDA
Location : Site 35-AOC-23
Level : III

<u>Sample ID</u>	<u>Lab ID</u>
TB1-A7458	203803-001
MW02-A7515	203803-002
MW03-A7516	203803-003
MW04-A7517	203803-004
MW01-A7514	203803-005

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: Ame Kathi
Project Manager

Date: 06/23/2008

Signature: J. St. John
Senior Program Manager

Date: 06/24/2008

CASE NARRATIVE

Laboratory number: **203803**
Client: **Innovative Technical Solutions, Inc.**
Project: **ALAMEDA**
Location: **Site 35-AOC-23**
Request Date: **06/06/08**
Samples Received: **06/06/08**

This hardcopy data package contains sample and QC results for five water samples, requested for the above referenced project on 06/06/08. See attached cooler receipt form for any sample receipt problems or discrepancies.

Volatile Organics by GC/MS (EPA 8260B):

Low response was observed for Freon 12 in the ICV analyzed 05/13/08 12:08; this analyte was not detected at or above the RL in the associated samples.

High response was observed for trichlorofluoromethane in the CCV analyzed 06/10/08 13:32; this analyte was not detected at or above the RL in the associated samples.

High recovery was observed for ethyl tert-butyl ether (ETBE) in the MSD for batch 139094; the parent sample was not a project sample, the BS/BSD were within limits, the associated RPD was within limits, and this analyte was not detected at or above the RL in the associated samples.

No other analytical problems were encountered.

ct

Chain of Custody





2730 Shadelands Drive, Suite 100
Walnut Creek, California 94598
(925) 946-3100 (Tel)
(925) 256-8998 (Fax)

2038C

CHAIN OF CUSTODY

PROJECT NAME: Alameda Basewide Groundwater Monitoring (QTR 20)
PROJECT NUMBER: 07033-0045 Site 35 - AOC-23
CONTACT NAME: Teresa Ruha (925) 525-8210

SAMPLE MATRIX: Water
EVENT: Summer 2008
LAB NAME: Curtis & Tompkins

COC: 6959

Page: 1 of 1

FIELD SAMPLE ID: INFORMATION			ANALYSIS																				COMMENTS (Check if MS/MSD requires Double Volume)			
			DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	PAHs	SVOCs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Sulfide	Alkalinity	Gross Alpha & Beta	Radium	Thorium Isotopes	Radium-228 Isotopes	Radiactive Strontium			Gamma Emitting Radionuclides	Uranium Isotopes
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25		
Number of Container			3	2	2	2	1	2	2	1	1	1	1	1	1	1	2	2	1	1	1	1	1	2	1	
Sample Container			40 ml V	40 ml V	40 ml V	0.5 LA	1 LA	1 LA	1 LA	1 LA	0.5 L PE	0.5 L PE	0.5 L PE	0.25 L PE	0.25 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 LA	100 ml V	250 mL PE
Preservative			HCL	HCL	HCL	NA	NA	NA	NA	HNO ₃	NA	NaOH	---	---	NaOH + ZnAC	HNO ₃	HNO ₃	NA	HNO ₃	HNO ₃	HNO ₃	HNO ₃	HNO ₃	HCL	NA	NA
TB1-A7458			6/6/08	0700	X																					
MW02-A7515			6-6-08	0934	X																					
MW03-A7516			6-6-08	1030	X																					
MW04-A7517			6-6-08	1135	X																					
MW01-A7514			6-6-08	1325	X																					
																							MS/MSD			
SAMPLER BY:			Shawn Baker										SPECIAL INSTRUCTIONS/COMMENTS: Please Keep Separate.													
SIGNATURE:																										
RELINQUISHED BY:			Teresa Ruha					Teresa Ruha					RELINQUISHED BY:													
			Printed Name					Signature					Printed Name					Signature								
			ITS I					6/6/08 1540					Date and Time													
RECEIVED BY:			Ling Wu										RECEIVED BY:													
			Printed Name					Signature					Printed Name					Signature								
			Standard, on ice, intact																							

COOLER RECEIPT CHECKLIST



Login # 203803 Date Received 10-10-08 Number of coolers 1
 Client ITSI Project Alameda

Date Opened 10-10-08 By (print) F Nichols (sign) Fat
 Date Logged in _____ By (print) _____ (sign) _____

1. Did cooler come with a shipping slip (airbill, etc)? YES NO
 Shipping info _____

2A. Were custody seals present? YES (circle) on cooler on samples NO
 How many _____ Name _____ Date _____

2B. Were custody seals intact upon arrival? YES NO N/A

3. Were custody papers dry and intact when received? YES NO

4. Were custody papers filled out properly (ink, signed, etc)? YES NO

5. Is the project identifiable from custody papers? (If so fill out top of form). YES NO

6. Indicate the packing in cooler: (if other, describe) _____

Bubble Wrap Foam blocks Bags None

Cloth material Cardboard Styrofoam Paper towels

7. If required, was sufficient ice used? Samples should be < or = 6°C YES NO N/A

Type of ice used: Wet Blue None Temp(°C) 5.5°

Samples Received on ice & cold without a temperature blank

Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? YES NO

If YES, what time were they transferred to freezer?

9. Did all bottles arrive unbroken/unopened? YES NO

10. Are samples in the appropriate containers for indicated tests? YES NO

11. Are sample labels present, in good condition and complete? YES NO

12. Do the sample labels agree with custody papers? YES NO

13. Was sufficient amount of sample sent for tests requested? YES NO

14. Are the samples appropriately preserved? YES NO N/A

15. Are bubbles > 6mm absent in VOA samples? YES NO N/A

16. Was the client contacted concerning this sample delivery? YES NO

If YES, Who was called? _____ By _____ Date: _____

COMMENTS

* 3 VOA's for Sample "MW-01-A7441" arrived unpreserved.



8260 Results & QC Summary Water



Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	203803	Location:	Site 35-AOC-23
Client:	Innovative Technical Solutions, Inc.	Prep:	EPA 5030B
Project#:	ALAMEDA	Analysis:	EPA 8260B
Field ID:	TB1-A7458	Batch#:	139094
Lab ID:	203803-001	Sampled:	06/06/08
Matrix:	Water	Received:	06/06/08
Units:	ug/L	Analyzed:	06/10/08
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.2
tert-Butyl Alcohol (TBA)	ND	10	2.0
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Isopropyl Ether (DIPE)	ND	0.5	0.2
Ethyl tert-Butyl Ether (ETBE)	ND	0.5	0.1
Bromomethane	ND	1.0	0.3
Chloroethane	ND	1.0	0.2
Methyl tert-Amyl Ether (TAME)	ND	0.5	0.1
Trichlorofluoromethane	ND	1.0	0.2
Acetone	1.4 J	10	1.0
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	10	1.0
Carbon Disulfide	ND	0.5	0.1
MTBE	ND	0.5	0.2
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
2-Butanone	ND	10	2.0
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.2
Chloroform	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.2
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	0.2
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	0.3
Toluene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
2-Hexanone	ND	10	0.3
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.1
o-Xylene	ND	0.5	0.1
Styrene	ND	0.5	0.1
Bromoform	ND	1.0	0.2
Isopropylbenzene	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,2,3-Trichloropropane	ND	0.5	0.1
Propylbenzene	ND	0.5	0.1
Bromobenzene	ND	0.5	0.1
1,3,5-Trimethylbenzene	ND	0.5	0.1

J= Estimated value

ND= Not Detected

RL= Reporting Limit

MDL= Method Detection Limit

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2.0

Volatile Organics

Lab #:	203803	Location:	Site 35-AOC-23
Client:	Innovative Technical Solutions, Inc.	Prep:	EPA 5030B
Project#:	ALAMEDA	Analysis:	EPA 8260B
Field ID:	TB1-A7458	Batch#:	139094
Lab ID:	203803-001	Sampled:	06/06/08
Matrix:	Water	Received:	06/06/08
Units:	ug/L	Analyzed:	06/10/08
Diln Fac:	1.000		

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	0.5	0.1
4-Chlorotoluene	ND	0.5	0.1
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.1
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
Butylbenzene	ND	0.5	0.1
/2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.4
1,2,4-Trichlorobenzene	ND	0.5	0.2
Hexachlorobutadiene	ND	0.5	0.4
Naphthalene	ND	2.0	0.4
1,2,3-Trichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	107	80-123
1,2-Dichloroethane-d4	104	76-138
Toluene-d8	103	80-120
Bromofluorobenzene	109	80-120

J= Estimated value

ND= Not Detected

RL= Reporting Limit

MDL= Method Detection Limit



Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	203803	Location:	Site 35-AOC-23
Client:	Innovative Technical Solutions, Inc.	Prep:	EPA 5030B
Project#:	ALAMEDA	Analysis:	EPA 8260B
Field ID:	MW02-A7515	Batch#:	139094
Lab ID:	203803-002	Sampled:	06/06/08
Matrix:	Water	Received:	06/06/08
Units:	ug/L	Analyzed:	06/10/08
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.2
tert-Butyl Alcohol (TBA)	ND	10	2.0
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Isopropyl Ether (DIPE)	ND	0.5	0.2
Ethyl tert-Butyl Ether (ETBE)	ND	0.5	0.1
Bromomethane	ND	1.0	0.3
Chloroethane	ND	1.0	0.2
Methyl tert-Amyl Ether (TAME)	ND	0.5	0.1
Trichlorofluoromethane	ND	1.0	0.2
Acetone	1.4 J	10	1.0
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	10	1.0
Carbon Disulfide	ND	0.5	0.1
MTBE	ND	0.5	0.2
trans-1,2-Dichloroethene	0.4 J	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
2-Butanone	ND	10	2.0
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.2
Chloroform	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.2
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	0.2
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	0.3
Toluene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
2-Hexanone	ND	10	0.3
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.1
o-Xylene	ND	0.5	0.1
Styrene	ND	0.5	0.1
Bromoform	ND	1.0	0.2
Isopropylbenzene	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,2,3-Trichloropropane	ND	0.5	0.1
Propylbenzene	ND	0.5	0.1
Bromobenzene	ND	0.5	0.1
1,3,5-Trimethylbenzene	ND	0.5	0.1

J= Estimated value

ND= Not Detected

RL= Reporting Limit

MDL= Method Detection Limit

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3.0

Volatile Organics

Lab #:	203803	Location:	Site 35-AOC-23
Client:	Innovative Technical Solutions, Inc.	Prep:	EPA 5030B
Project#:	ALAMEDA	Analysis:	EPA 8260B
Field ID:	MW02-A7515	Batch#:	139094
Lab ID:	203803-002	Sampled:	06/06/08
Matrix:	Water	Received:	06/06/08
Units:	ug/L	Analyzed:	06/10/08
Diln Fac:	1.000		

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	0.5	0.1
4-Chlorotoluene	ND	0.5	0.1
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.1
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	0.3 J	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
Butylbenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.4
1,2,4-Trichlorobenzene	ND	0.5	0.2
Hexachlorobutadiene	ND	0.5	0.4
Naphthalene	ND	2.0	0.4
1,2,3-Trichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	113	80-123
1,2-Dichloroethane-d4	116	76-138
Toluene-d8	99	80-120
Bromofluorobenzene	112	80-120

J= Estimated value

ND= Not Detected

RL= Reporting Limit

MDL= Method Detection Limit



Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	203803	Location:	Site 35-AOC-23
Client:	Innovative Technical Solutions, Inc.	Prep:	EPA 5030B
Project#:	ALAMEDA	Analysis:	EPA 8260B
Field ID:	MW03-A7516	Batch#:	139134
Lab ID:	203803-003	Sampled:	06/06/08
Matrix:	Water	Received:	06/06/08
Units:	ug/L	Analyzed:	06/11/08
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.2
tert-Butyl Alcohol (TBA)	ND	10	2.0
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Isopropyl Ether (DIPE)	ND	0.5	0.2
Ethyl tert-Butyl Ether (ETBE)	ND	0.5	0.1
Bromomethane	ND	1.0	0.3
Chloroethane	ND	1.0	0.2
Methyl tert-Amyl Ether (TAME)	ND	0.5	0.1
Trichlorofluoromethane	ND	1.0	0.2
Acetone	ND	10	1.0
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	10	1.0
Carbon Disulfide	ND	0.5	0.1
MTBE	ND	0.5	0.2
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
2-Butanone	ND	10	2.0
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.2
Chloroform	ND	0.5	0.1
Bromoform	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.2
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	0.2
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	0.3
Toluene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
2-Hexanone	ND	10	0.3
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.1
o-Xylene	ND	0.5	0.1
Styrene	ND	0.5	0.1
Bromoform	ND	1.0	0.2
Isopropylbenzene	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,2,3-Trichloropropane	ND	0.5	0.1
Propylbenzene	ND	0.5	0.1
Bromobenzene	ND	0.5	0.1
1,3,5-Trimethylbenzene	ND	0.5	0.1

J= Estimated value

ND= Not Detected

RL= Reporting Limit

MDL= Method Detection Limit

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4.0

Volatile Organics

Lab #:	203803	Location:	Site 35-AOC-23
Client:	Innovative Technical Solutions, Inc.	Prep:	EPA 5030B
Project#:	ALAMEDA	Analysis:	EPA 8260B
Field ID:	MW03-A7516	Batch#:	139134
Lab ID:	203803-003	Sampled:	06/06/08
Matrix:	Water	Received:	06/06/08
Units:	ug/L	Analyzed:	06/11/08
Diln Fac:	1.000		

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	0.5	0.1
4-Chlorotoluene	ND	0.5	0.1
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.1
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	0.2 J	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
Butylbenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.4
1,2,4-Trichlorobenzene	ND	0.5	0.2
Hexachlorobutadiene	ND	0.5	0.4
Naphthalene	ND	2.0	0.4
1,2,3-Trichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	109	80-123
1,2-Dichloroethane-d4	113	76-138
Toluene-d8	96	80-120
Bromofluorobenzene	111	80-120

J= Estimated value

ND= Not Detected

RL= Reporting Limit

MDL= Method Detection Limit



Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	203803	Location:	Site 35-AOC-23
Client:	Innovative Technical Solutions, Inc.	Prep:	EPA 5030B
Project#:	ALAMEDA	Analysis:	EPA 8260B
Field ID:	MW04-A7517	Batch#:	139134
Lab ID:	203803-004	Sampled:	06/06/08
Matrix:	Water	Received:	06/06/08
Units:	ug/L	Analyzed:	06/11/08
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.2
tert-Butyl Alcohol (TBA)	ND	10	2.0
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Isopropyl Ether (DIPE)	ND	0.5	0.2
Ethyl tert-Butyl Ether (ETBE)	ND	0.5	0.1
Bromomethane	ND	1.0	0.3
Chloroethane	ND	1.0	0.2
Methyl tert-Amyl Ether (TAME)	ND	0.5	0.1
Trichlorofluoromethane	ND	1.0	0.2
Acetone	ND	10	1.0
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	10	1.0
Carbon Disulfide	ND	0.5	0.1
MTBE	ND	0.5	0.2
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
2-Butanone	ND	10	2.0
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.2
Chloroform	ND	0.5	0.1
Bromochloromethane	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.2
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	0.2
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	0.3
Toluene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
2-Hexanone	ND	10	0.3
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.1
o-Xylene	ND	0.5	0.1
Styrene	ND	0.5	0.1
Bromoform	ND	1.0	0.2
Isopropylbenzene	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,2,3-Trichloropropane	ND	0.5	0.1
Propylbenzene	ND	0.5	0.1
Bromobenzene	ND	0.5	0.1
1,3,5-Trimethylbenzene	ND	0.5	0.1

J= Estimated value

ND= Not Detected

RL= Reporting Limit

MDL= Method Detection Limit

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Volatile Organics

Lab #:	203803	Location:	Site 35-AOC-23
Client:	Innovative Technical Solutions, Inc.	Prep:	EPA 5030B
Project#:	ALAMEDA	Analysis:	EPA 8260B
Field ID:	MW04-A7517	Batch#:	139134
Lab ID:	203803-004	Sampled:	06/06/08
Matrix:	Water	Received:	06/06/08
Units:	ug/L	Analyzed:	06/11/08
Diln Fac:	1.000		

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	0.5	0.1
4-Chlorotoluene	ND	0.5	0.1
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.1
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	0.2 J	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
Butylbenzene	ND	0.5	0.1
2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.4
1,2,4-Trichlorobenzene	ND	0.5	0.2
Hexachlorobutadiene	ND	0.5	0.4
Naphthalene	ND	2.0	0.4
1,2,3-Trichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	109	80-123
1,2-Dichloroethane-d4	120	76-138
Toluene-d8	100	80-120
Bromofluorobenzene	109	80-120

J= Estimated value

ND= Not Detected

RL= Reporting Limit

MDL= Method Detection Limit



Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	203803	Location:	Site 35-AOC-23
Client:	Innovative Technical Solutions, Inc.	Prep:	EPA 5030B
Project#:	ALAMEDA	Analysis:	EPA 8260B
Field ID:	MW01-A7514	Batch#:	139134
Lab ID:	203803-005	Sampled:	06/06/08
Matrix:	Water	Received:	06/06/08
Units:	ug/L	Analyzed:	06/11/08
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.2
tert-Butyl Alcohol (TBA)	ND	10	2.0
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Isopropyl Ether (DIPE)	ND	0.5	0.2
Ethyl tert-Butyl Ether (ETBE)	ND	0.5	0.1
Bromomethane	ND	1.0	0.3
Chloroethane	ND	1.0	0.2
Methyl tert-Amyl Ether (TAME)	ND	0.5	0.1
Trichlorofluoromethane	ND	1.0	0.2
Acetone	ND	10	1.0
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	10	1.0
Carbon Disulfide	ND	0.5	0.1
MTBE	ND	0.5	0.2
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
2-Butanone	ND	10	2.0
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.2
Chloroform	ND	0.5	0.1
Bromochloromethane	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.2
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	0.2
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	0.3
Toluene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
2-Hexanone	ND	10	0.3
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.1
c-Xylene	ND	0.5	0.1
Styrene	ND	0.5	0.1
Bromoform	ND	1.0	0.2
Isopropylbenzene	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,2,3-Trichloropropane	ND	0.5	0.1
Propylbenzene	ND	0.5	0.1
Bromobenzene	ND	0.5	0.1
1,3,5-Trimethylbenzene	ND	0.5	0.1

J= Estimated value

ND= Not Detected

RL= Reporting Limit

MDL= Method Detection Limit

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Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	203803	Location:	Site 35-AOC-23
Client:	Innovative Technical Solutions, Inc.	Prep:	EPA 5030B
Project#:	ALAMEDA	Analysis:	EPA 8260B
Field ID:	MW01-A7514	Batch#:	139134
Lab ID:	203803-005	Sampled:	06/06/08
Matrix:	Water	Received:	06/06/08
Units:	ug/L	Analyzed:	06/11/08
Diln Fac:	1.000		

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	0.5	0.1
4-Chlorotoluene	ND	0.5	0.1
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.1
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	0.3 J	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
1-Butylbenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.4
1,2,4-Trichlorobenzene	ND	0.5	0.2
Hexachlorobutadiene	ND	0.5	0.4
Naphthalene	ND	2.0	0.4
1,2,3-Trichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	107	80-123
1,2-Dichloroethane-d4	114	76-138
Toluene-d8	94	80-120
Bromofluorobenzene	112	80-120

J= Estimated value

ND= Not Detected

RL= Reporting Limit

MDL= Method Detection Limit

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Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	203803	Location:	Site 35-AOC-23
Client:	Innovative Technical Solutions, Inc.	Prep:	EPA 5030B
Project#:	ALAMEDA	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	139094
Units:	ug/L	Analyzed:	06/10/08
Diln Fac:	1.000		

Type: BS Lab ID: QC445787

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	125.0	176.9	142	55-158
Isopropyl Ether (DIPE)	25.00	26.14	105	63-122
Ethyl tert-Butyl Ether (ETBE)	25.00	27.82	111	62-133
Methyl tert-Amyl Ether (TAME)	25.00	28.36	113	69-137
1,1-Dichloroethene	25.00	25.50	102	77-132
MTBE	25.00	29.18	117	60-136
Benzene	25.00	26.33	105	80-120
Trichloroethene	25.00	26.50	106	80-120
Toluene	25.00	25.12	100	80-121
Chlorobenzene	25.00	25.71	103	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-123
1,2-Dichloroethane-d4	100	76-138
Toluene-d8	99	80-120
Bromofluorobenzene	102	80-120

Type: BSD Lab ID: QC445788

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	125.0	182.9	146	55-158	3	20
Isopropyl Ether (DIPE)	25.00	28.67	115	63-122	9	20
Ethyl tert-Butyl Ether (ETBE)	25.00	30.59	122	62-133	10	20
Methyl tert-Amyl Ether (TAME)	25.00	28.52	114	69-137	1	20
1,1-Dichloroethene	25.00	25.93	104	77-132	2	20
MTBE	25.00	29.95	120	60-136	3	20
Benzene	25.00	25.89	104	80-120	2	20
Trichloroethene	25.00	26.94	108	80-120	2	20
Toluene	25.00	24.73	99	80-121	2	20
Chlorobenzene	25.00	25.76	103	80-120	0	20

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-123
1,2-Dichloroethane-d4	98	76-138
Toluene-d8	95	80-120
Bromofluorobenzene	107	80-120

RPD= Relative Percent Difference

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Batch QC Report

Volatile Organics			
Lab #:	203803	Location:	Site 35-AOC-23
Client:	Innovative Technical Solutions, Inc.	Prep:	EPA 5030B
Project#:	ALAMEDA	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC445789	Batch#:	139094
Matrix:	Water	Analyzed:	06/10/08
Units:	ug/L		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.2
tert-Butyl Alcohol (TBA)	ND	10	2.0
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Isopropyl Ether (DIPE)	ND	0.5	0.2
Ethyl tert-Butyl Ether (ETBE)	ND	0.5	0.1
Bromomethane	ND	1.0	0.3
Chloroethane	ND	1.0	0.2
Methyl tert-Amyl Ether (TAME)	ND	0.5	0.1
Trichlorofluoromethane	ND	1.0	0.2
Acetone	ND	10	1.0
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	10	1.0
Carbon Disulfide	ND	0.5	0.1
MTBE	ND	0.5	0.2
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
2-Butanone	ND	10	2.0
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.2
Chloroform	ND	0.5	0.1
Bromochloromethane	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.2
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	0.2
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.1
Methyl-2-Pentanone	ND	10	0.3
Toluene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
2-Hexanone	ND	10	0.3
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromoethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.1
o-Xylene	ND	0.5	0.1
Styrene	ND	0.5	0.1
Bromoform	ND	1.0	0.2
Isopropylbenzene	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,2,3-Trichloropropane	ND	0.5	0.1
Propylbenzene	ND	0.5	0.1
Bromobenzene	ND	0.5	0.1
1,3,5-Trimethylbenzene	ND	0.5	0.1
2-Chlorotoluene	ND	0.5	0.1

ND= Not Detected

RL= Reporting Limit

MDL= Method Detection Limit



Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	203803	Location:	Site 35-AOC-23
Client:	Innovative Technical Solutions, Inc.	Prep:	EPA 5030B
Project#:	ALAMEDA	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC445789	Batch#:	139094
Matrix:	Water	Analyzed:	06/10/08
Units:	ug/L		

Analyte	Result	RL	MDL
4-Chlorotoluene	ND	0.5	0.1
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.1
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
n-Butylbenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.4
1,2,4-Trichlorobenzene	ND	0.5	0.2
Hexachlorobutadiene	ND	0.5	0.4
Naphthalene	ND	2.0	0.4
1,2,3-Trichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	107	80-123
1,2-Dichloroethane-d4	98	76-138
Toluene-d8	97	80-120
Bromofluorobenzene	104	80-120

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit
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Batch QC Report

Volatile Organics

Lab #:	203803	Location:	Site 35-AOC-23
Client:	Innovative Technical Solutions, Inc.	Prep:	EPA 5030B
Project#:	ALAMEDA	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	203769-009	Batch#:	139094
Matrix:	Water	Sampled:	06/04/08
Units:	uq/L	Received:	06/05/08

Type: MS Analyzed: 06/10/08
 Lab ID: QC445860

Analyte	MSS	Result	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	<2.015	125.0	177.6	142	66-153	
Isopropyl Ether (DIPE)	<0.1648	25.00	30.83	123	72-124	
Methyl tert-Butyl Ether (ETBE)	<0.1427	25.00	31.90	128	72-131	
Methyl tert-Amyl Ether (TAME)	<0.1000	25.00	29.25	117	76-128	
1,1-Dichloroethene	<0.1808	25.00	23.44	94	80-135	
MTBE	<0.1543	25.00	32.12	128	72-129	
Benzene	<0.1121	25.00	26.81	107	80-122	
Trichloroethene	<0.1628	25.00	26.18	105	75-128	
Toluene	<0.1078	25.00	24.43	98	80-120	
Chlorobenzene	<0.1000	25.00	25.38	102	80-120	

Surrogate	%REC	Limits
Dibromofluoromethane	113	80-123
1,2-Dichloroethane-d4	114	76-138
Toluene-d8	99	80-120
Bromofluorobenzene	108	80-120

Type: MSD Analyzed: 06/11/08
 Lab ID: QC445861

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	125.0	182.5	146	66-153	3	23
Isopropyl Ether (DIPE)	25.00	30.12	120	72-124	2	20
Methyl tert-Butyl Ether (ETBE)	25.00	33.07	132 *	72-131	4	20
Methyl tert-Amyl Ether (TAME)	25.00	28.33	113	76-128	3	20
1,1-Dichloroethene	25.00	22.57	90	80-135	4	20
MTBE	25.00	32.23	129	72-129	0	20
Benzene	25.00	25.81	103	80-122	4	20
Trichloroethene	25.00	25.60	102	75-128	2	20
Toluene	25.00	22.32	89	80-120	9	20
Chlorobenzene	25.00	25.20	101	80-120	1	20

Surrogate	%REC	Limits
Dibromofluoromethane	113	80-123
1,2-Dichloroethane-d4	111	76-138
Toluene-d8	95	80-120
Bromofluorobenzene	110	80-120

*= Value outside of QC limits; see narrative
 RPD= Relative Percent Difference



Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	203803	Location:	Site 35-AOC-23
Client:	Innovative Technical Solutions, Inc.	Prep:	EPA 5030B
Project#:	ALAMEDA	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	139134
Units:	ug/L	Analyzed:	06/11/08
Diln Fac:	1.000		

Type: BS Lab ID: QC445987

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	125.0	156.2	125	55-158
Isopropyl Ether (DIPE)	25.00	24.78	99	63-122
Ethyl tert-Butyl Ether (ETBE)	25.00	27.18	109	62-133
Methyl tert-Amyl Ether (TAME)	25.00	28.05	112	69-137
1,1-Dichloroethene	25.00	24.95	100	77-132
MTBE	25.00	27.73	111	60-136
Benzene	25.00	25.90	104	80-120
Trichloroethene	25.00	27.23	109	80-120
Toluene	25.00	24.38	98	80-121
Chlorobenzene	25.00	25.20	101	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-123
1,2-Dichloroethane-d4	100	76-138
Toluene-d8	97	80-120
Bromofluorobenzene	109	80-120

Type: BSD Lab ID: QC445988

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	125.0	141.3	113	55-158	10	20
Isopropyl Ether (DIPE)	25.00	25.72	103	63-122	4	20
Ethyl tert-Butyl Ether (ETBE)	25.00	26.29	105	62-133	3	20
Methyl tert-Amyl Ether (TAME)	25.00	26.51	106	69-137	6	20
1,1-Dichloroethene	25.00	24.58	98	77-132	1	20
MTBE	25.00	26.94	108	60-136	3	20
Benzene	25.00	24.82	99	80-120	4	20
Trichloroethene	25.00	26.61	106	80-120	2	20
Toluene	25.00	23.79	95	80-121	2	20
Chlorobenzene	25.00	24.67	99	80-120	2	20

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-123
1,2-Dichloroethane-d4	97	76-138
Toluene-d8	97	80-120
Bromofluorobenzene	111	80-120

RPD= Relative Percent Difference
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Batch QC Report

Volatile Organics

Lab #:	203803	Location:	Site 35-AOC-23
Client:	Innovative Technical Solutions, Inc.	Prep:	EPA 5030B
Project#:	ALAMEDA	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC445989	Batch#:	139134
Matrix:	Water	Analyzed:	06/11/08
Units:	ug/L		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.2
tert-Butyl Alcohol (TBA)	ND	10	2.0
Chloromethane	ND	1.0	0.2
Vinyl Chloride	ND	0.5	0.1
Isopropyl Ether (DIPE)	ND	0.5	0.2
Ethyl tert-Butyl Ether (ETBE)	ND	0.5	0.1
Bromomethane	ND	1.0	0.3
Chloroethane	ND	1.0	0.2
Ethyl tert-Amyl Ether (TAME)	ND	0.5	0.1
Trichlorofluoromethane	ND	1.0	0.2
Acetone	ND	10	1.0
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	10	1.0
Carbon Disulfide	ND	0.5	0.1
MTBE	ND	0.5	0.2
trans-1,2-Dichloroethene	ND	0.5	0.1
1,1-Dichloroethane	ND	0.5	0.1
2-Butanone	ND	10	2.0
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.2
Chloroform	ND	0.5	0.1
Bromochloromethane	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.2
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	0.2
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.1
Methyl-2-Pentanone	ND	10	0.3
Toluene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
2-Hexanone	ND	10	0.3
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.1
o-Xylene	ND	0.5	0.1
Styrene	ND	0.5	0.1
Bromoform	ND	1.0	0.2
Isopropylbenzene	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,2,3-Trichloropropane	ND	0.5	0.1
Propylbenzene	ND	0.5	0.1
Bromobenzene	ND	0.5	0.1
1,3,5-Trimethylbenzene	ND	0.5	0.1
2-Chlorotoluene	ND	0.5	0.1

ND= Not Detected

RL= Reporting Limit

MDL= Method Detection Limit



Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	203803	Location:	Site 35-AOC-23
Client:	Innovative Technical Solutions, Inc.	Prep:	EPA 5030B
Project#:	ALAMEDA	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC445989	Batch#:	139134
Matrix:	Water	Analyzed:	06/11/08
Units:	ug/L		

Analyte	Result	RL	MDL
4-Chlorotoluene	ND	0.5	0.1
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.1
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
n-Butylbenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.4
1,2,4-Trichlorobenzene	ND	0.5	0.2
Hexachlorobutadiene	ND	0.5	0.4
Naphthalene	ND	2.0	0.4
1,2,3-Trichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-123
1,2-Dichloroethane-d4	102	76-138
Toluene-d8	96	80-120
Bromofluorobenzene	108	80-120

ND= Not Detected

RL= Reporting Limit

MDL= Method Detection Limit

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11.0



Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	203803	Location:	Site 35-AOC-23
Client:	Innovative Technical Solutions, Inc.	Prep:	EPA 5030B
Project#:	ALAMEDA	Analysis:	EPA 8260B
Field ID:	MW01-A7514	Diln Fac:	1.000
MSS Lab ID:	203803-005	Batch#:	139134
Matrix:	Water	Sampled:	06/06/08
Units:	ug/L	Received:	06/06/08

Type: MS Analyzed: 06/11/08
 Lab ID: QC446068

Analyte	MSS	Result	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	<2.015	125.0	125.0	159.7	128	66-153
Isopropyl Ether (DIPE)	<0.1648	25.00	25.00	28.02	112	72-124
Methyl tert-Butyl Ether (ETBE)	<0.1427	25.00	25.00	28.90	116	72-131
Methyl tert-Amyl Ether (TAME)	<0.1000	25.00	25.00	26.56	106	76-128
1,1-Dichloroethene	<0.1808	25.00	25.00	23.10	92	80-135
MTBE	<0.1543	25.00	25.00	28.24	113	72-129
Benzene	<0.1121	25.00	25.00	25.30	101	80-122
Trichloroethene	<0.1628	25.00	25.00	26.34	105	75-128
Toluene	<0.1078	25.00	25.00	24.27	97	80-120
Chlorobenzene	<0.1000	25.00	25.00	25.45	102	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	109	80-123
1,2-Dichloroethane-d4	112	76-138
Toluene-d8	96	80-120
Bromofluorobenzene	108	80-120

Type: MSD Analyzed: 06/12/08
 Lab ID: QC446069

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	125.0	165.5	132	66-153	4	23
Isopropyl Ether (DIPE)	25.00	25.70	103	72-124	9	20
Methyl tert-Butyl Ether (ETBE)	25.00	27.17	109	72-131	6	20
Methyl tert-Amyl Ether (TAME)	25.00	28.29	113	76-128	6	20
1,1-Dichloroethene	25.00	23.01	92	80-135	0	20
MTBE	25.00	28.06	112	72-129	1	20
Benzene	25.00	25.57	102	80-122	1	20
Trichloroethene	25.00	26.25	105	75-128	0	20
Toluene	25.00	24.47	98	80-120	1	20
Chlorobenzene	25.00	24.55	98	80-120	4	20

Surrogate	%REC	Limits
Dibromofluoromethane	108	80-123
1,2-Dichloroethane-d4	114	76-138
Toluene-d8	104	80-120
Bromofluorobenzene	103	80-120

RPD= Relative Percent Difference

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12.0

CURTIS & TOMPKINS BFB TUNE FOR 203803 MSVOA Water
EPA 8260B

Inst : MSVOA09 Run Name : BFB IDF : 1.0
Seqnum : 488192017012 File : iec12 Time : 12-MAY-2008 18:11

Standards: S7916

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	30864	17.37	
75	30% - 60% of mass 95	72373	40.73	
95		177685		
96	5% - 9% of mass 95	11823	6.65	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	145594	81.94	
175	5% - 9% of mass 174	11039	7.58	
176	> 95% and < 101% of mass 174	144258	99.08	
177	5% - 9% of mass 176	10345	7.17	

Analyst: MJM Date: 05/13/08 Reviewer: LW Date: 05/14/08
Page 1 of 1 488192017012

CURTIS & TOMPKINS BFB TUNE FOR 203803 MSVOA Water
EPA 8260B

Inst : MSVOA09
Seqnum : 488193450002

Run Name : BFB
File : ied02

IDF : 1.0
Time : 13-MAY-2008 09:24

Standards: S7916

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	16106	16.75	
75	30% - 60% of mass 95	38584	40.13	
95		96144		
96	5% - 9% of mass 95	6183	6.43	
173	< 2% of mass 174	187	0.23	
174	> 50% and < 100% of mass 95	79896	83.10	
175	5% - 9% of mass 174	6001	7.51	
176	> 95% and < 101% of mass 174	78968	98.84	
177	5% - 9% of mass 176	4945	6.26	

Analyst: MJM Date: 05/13/08 Reviewer: LW Date: 05/14/08
Page 1 of 1 488193450002

CURTIS & TOMPKINS BFB TUNE FOR 203803 MSVOA Water
EPA 8260B

Inst : MSVOA09
Seqnum : 488216505002

Run Name : BFB
File : iet02

IDF : 1.0
Time : 29-MAY-2008 08:53

Standards: S7916

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	56992	19.50	
75	30% - 60% of mass 95	128656	44.03	
95		292202		
96	5% - 9% of mass 95	20054	6.86	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	217813	74.54	
175	5% - 9% of mass 174	15307	7.03	
176	> 95% and < 101% of mass 174	210410	96.60	
177	5% - 9% of mass 176	13300	6.32	

Analyst: MJM

Date: 05/29/08

Reviewer: ACM

Date: 05/30/08

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488216505002

CURTIS & TOMPKINS BFB TUNE FOR 203803 MSVOA Water
EPA 8260B

Inst : MSVOA09
Seqnum : 488233770004

Run Name : BFB
File : ifa04

IDF : 1.0
Time : 10-JUN-2008 11:08

Standards: S7916

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	12201	19.42	
75	30% - 60% of mass 95	26578	42.30	
95		62829		
96	5% - 9% of mass 95	3959	6.30	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	44885	71.44	
175	5% - 9% of mass 174	3205	7.14	
176	> 95% and < 101% of mass 174	43866	97.73	
177	5% - 9% of mass 176	2897	6.60	

Analyst: MJM Date: 06/10/08 Reviewer: ACM Date: 06/11/08
Page 1 of 1 488233770004

CURTIS & TOMPKINS BFB TUNE FOR 203803 MSVOA Water
EPA 8260B

Inst : MSVOA09
Seqnum : 488233770008

Run Name : BFB
File : ifa08

IDF : 1.0
Time : 10-JUN-2008 13:13

Standards: S7916

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	7730	18.97	
75	30% - 60% of mass 95	17854	43.82	
95		40744		
96	5% - 9% of mass 95	3457	8.48	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	32226	79.09	
175	5% - 9% of mass 174	2176	6.75	
176	> 95% and < 101% of mass 174	31525	97.82	
177	5% - 9% of mass 176	2027	6.43	

Analyst: MJM

Date: 06/10/08

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Reviewer: ACM

Date: 06/11/08

488233770008

CURTIS & TOMPKINS BFB TUNE FOR 203803 MSVOA Water
EPA 8260B

Inst : MSVOA09 Run Name : BFB IDF : 1.0
Seqnum : 488235230005 File : ifb05 Time : 11-JUN-2008 11:00

Standards: S9454

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	6397	18.15	
75	30% - 60% of mass 95	15461	43.86	
95		35253		
96	5% - 9% of mass 95	2216	6.29	
173	< 2% of mass 174	116	0.46	
174	> 50% and < 100% of mass 95	25108	71.22	
175	5% - 9% of mass 174	1591	6.34	
176	> 95% and < 101% of mass 174	24869	99.05	
177	5% - 9% of mass 176	1839	7.39	

Analyst: MJD Date: 06/12/08 Reviewer: ACM Date: 06/12/08
Page 1 of 1 488235230005

CURTIS & TOMPKINS BFB TUNE FOR 203803 MSVOA Water
EPA 8260B

Inst : MSVOA09 Run Name : BFB IDF : 1.0
Seqnum : 488236701002 File : ifc02 Time : 12-JUN-2008 10:52

Standards: S9454

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	22505	19.93	
75	30% - 60% of mass 95	50472	44.69	
95		112928		
96	5% - 9% of mass 95	7338	6.50	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	84440	74.77	
175	5% - 9% of mass 174	6574	7.79	
176	> 95% and < 101% of mass 174	83125	98.44	
177	5% - 9% of mass 176	4880	5.87	

Analyst: ACM

Date: 06/12/08

Reviewer: LW

Date: 06/12/08

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488236701002

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 203803 MSVOA Water: EPA 8260B

Inst : MSVOA09
 Calnum : 488192017001
 Units : ug/L

Name : 826GOX9W
 Date : 12-MAY-2008 20:56
 X Axis : R

Type : WATER

Level	File	Seqnum	Sample ID	Analyzed	Stds													
L1	iec17	488192017017	0.25-0.5PPB	12-MAY-2008 20:56	S8975 (200000X), S8980 (100000X), S8692 (200000X), S9058 (2500X)													
L2	iec18	488192017018	0.5-1PPB	12-MAY-2008 21:32	S8975 (100000X), S8980 (50000X), S8692 (100000X), S9058 (2500X)													
L3	iec19	488192017019	2PPB	12-MAY-2008 22:09	S8975 (25000X), S8980 (25000X), S8692 (50000X), S9058 (2500X)													
L4	iec20	488192017020	5PPB	12-MAY-2008 22:45	S8975 (10000X), S8980 (10000X), S8692 (20000X), S9058 (2500X)													
L5	iec21	488192017021	10PPB	12-MAY-2008 23:20	S8975 (5000X), S8980 (5000X), S8692 (10000X), S9058 (2500X)													
L6	iec22	488192017022	20PPB	12-MAY-2008 23:57	S8974 (25000X), S9032 (25000X), S9035 (50000X), S9058 (2500X)													
L7	iec23	488192017023	50PPB	13-MAY-2008 00:33	S8974 (10000X), S9032 (10000X), S9035 (20000X), S9058 (2500X)													
L8	iec24	488192017024	75PPB	13-MAY-2008 01:08	S8974 (6667X), S9032 (6667X), S9035 (13330X), S9058 (2500X)													
L9	iec25	488192017025	100PPB	13-MAY-2008 01:44	S8974 (5000X), S9032 (5000X), S9035 (10000X), S9058 (2500X)													

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	%RSD	Max	Min	Min	Flg
Freon 12		0.4828m	0.5175m	0.5592m	0.5450m	0.8989m	0.8703	0.8615	0.7677	LINR	0.45254	1.21980		0.6879	0.992	15	0.05	0.99	
Chloromethane		0.8531m	0.9256m	0.8100m	0.7971m	1.0924m	0.9775	0.9476	0.9084	AVRG		1.09413		0.9140	11	15	0.10	0.99	
Vinyl Chloride	0.4521	0.6441m	0.6962m	0.6402m	0.6504	0.8346	0.8029	0.7491		LINR	0.16992	1.29732		0.6837	0.997	15	0.05	0.99	
Bromomethane		0.3256m	0.2624m	0.2633m	0.2818m	0.3715m	0.3689	0.4272		QUAD	0.47073	3.04542	-0.02224	0.3297	0.999	15	0.05	0.99	
Chloroethane		0.4221m	0.4637	0.4186	0.4135	0.5178	0.4589	0.4779	0.4237	AVRG		2.22453		0.4495	8	15	0.05	0.99	
Trichlorofluoromethane		0.5692	0.6377	0.6248m	0.6538m	0.7884	0.7703	0.7695	0.7012	AVRG		1.45066		0.6893	12	15	0.05	0.99	
Acetone				0.2020	0.2130	0.2202	0.2209	0.2240	0.2023	AVRG		4.67900		0.2137	5	15	0.05	0.99	
1,1-Dichloroethene		0.4892	0.4751	0.3990m	0.4131	0.4701	0.4367	0.3890	0.4021	AVRG		2.30255		0.4343	9	15	0.05	0.99	
Methylene Chloride				0.6984	0.6453	0.6225	0.6744	0.6201	0.5938	AVRG		1.57995		0.6329	7	15	0.05	0.99	
Carbon Disulfide		1.7377	2.0465	1.7390m	1.8801	2.1748	1.9500	1.8609	1.7893	AVRG		0.52707		1.8973	8	15	0.05	0.99	
MTBE		1.2840m	1.2533	1.1896	1.2025	1.3103	1.2258	1.2531	1.1791	AVRG		0.80828		1.2372	4	15	0.05	0.99	
trans-1,2-Dichloroethene		0.6089	0.6017	0.4630m	0.4938	0.5335	0.4950	0.4833	0.4761	AVRG		1.92526		0.5194	11	15	0.05	0.99	
1,1-Dichloroethane		0.8596	1.0591	0.9114	0.9519	1.0415	0.9548	0.9263	0.9127	AVRG		1.05025		0.9522	7	15	0.10	0.99	
2-Butanone				0.3129	0.3057	0.3133	0.3265	0.3027	0.3045	AVRG		3.25074		0.3076	4	15	0.05	0.99	
2,2-Dichloropropane		0.5308m	0.5936	0.5436	0.5610	0.6408	0.5545	0.5006	0.4990	AVRG		1.80834		0.5530	9	15	0.05	0.99	
cis-1,2-Dichloroethene		0.6891	0.6418	0.5317	0.5316	0.6072	0.5620	0.5271	0.5332	AVRG		1.73024		0.5780	11	15	0.05	0.99	
Chloroform		0.9172	0.9927	0.8606	0.8317	0.9229	0.8692	0.8404	0.8260	AVRG		1.13305		0.8826	7	15	0.05	0.99	
Bromochloromethane		0.1819	0.3085	0.2863	0.2868	0.3117	0.3108	0.2965	0.2954	AVRG		3.51207		0.2847	15	15	0.05	0.99	
1,1,1-Trichloroethane		0.5258	0.6367	0.5506	0.6220	0.6552	0.5832	0.5338	0.5444	AVRG		1.71982		0.5815	9	15	0.05	0.99	
1,1-Dichloropropene		0.3774m	0.4314	0.3560	0.4314	0.4299	0.4010	0.3580	0.3676	AVRG		2.53745		0.3941	8	15	0.05	0.99	
Carbon Tetrachloride		0.2564	0.3634	0.2907	0.3315	0.3489	0.3238	0.2718	0.2964	AVRG		3.22208		0.3104	12	15	0.05	0.99	
1,2-Dichloroethane		0.3935	0.3983	0.3616	0.3783	0.3922	0.4069	0.3578	0.3819	AVRG		2.60546		0.3838	5	15	0.05	0.99	
Benzene		1.2760	1.3189	1.1914	1.2416	1.2463	1.2580	1.1387	1.1502	AVRG		0.81456		1.2277	5	15	0.05	0.99	
Trichloroethene		0.3173	0.3357	0.2964	0.3510	0.3322	0.3391	0.3118	0.3094	AVRG		3.08538		0.3241	6	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2	Max %RSD	Min %RSD	RF	Min r^2	Flg
1,2-Dichloropropane		0.3008	0.4124	0.3776	0.3765	0.3913	0.4075	0.3704	0.3861	AVRG		2.64670		0.3778	9	15	0.05	0.99		
Bromodichloromethane		0.4574m	0.4143	0.3999	0.4121	0.4236	0.4514	0.4033	0.4148	AVRG		2.36915		0.4221	5	15	0.05	0.99		
Dibromomethane		0.2708	0.2505	0.2555	0.2589	0.2640	0.2757	0.2504	0.2620	AVRG		3.83191		0.2610	3	15	0.05	0.99		
4-Methyl-2-Pentanone		0.4269	0.4352	0.4070	0.4412	0.4311	0.4574	0.4311	0.4196	AVRG		2.31913		0.4312	3	15	0.05	0.99		
Toluene		0.8620	0.8512	0.7328	0.7604	0.7579	0.7777	0.6877	0.6993	AVRG		1.30530		0.7661	8	15	0.05	0.99		
1,1,2-Trichloroethane		0.1749	0.1908	0.1766	0.1792	0.1887	0.1877	0.1774	0.1774	AVRG		5.50711		0.1816	4	15	0.05	0.99		
2-Hexanone			0.3248	0.3446	0.3576	0.3501	0.3578	0.3562	0.3230	AVRG		2.89974		0.3449	4	15	0.05	0.99		
1,3-Dichloropropane		0.5549	0.6019	0.5901	0.5975	0.6169	0.6105	0.5971	0.5749	AVRG		1.68641		0.5930	3	15	0.05	0.99		
Tetrachloroethene		0.4009	0.3876	0.3447	0.3998	0.4041	0.3457	0.3097	0.3140	AVRG		2.75230		0.3633	11	15	0.05	0.99		
Dibromochloromethane		0.4702	0.4188	0.4084	0.4229	0.4411	0.4462	0.4390	0.4309	AVRG		2.30043		0.4347	4	15	0.05	0.99		
1,2-Dibromoethane		0.2967	0.3782	0.3493	0.3853	0.3680	0.3822	0.3567	0.3611	AVRG		2.78016		0.3597	8	15	0.05	0.99		
Chlorobenzene		1.0535	1.0872	0.9826	0.9695	0.9942	1.0093	0.8886	0.8836	AVRG		1.01671		0.9836	7	15	0.30	0.99		
1,1,1,2-Tetrachloroethane		0.3750	0.3495	0.3482	0.3402	0.3493	0.3447	0.3364	0.3259	AVRG		2.88904		0.3461	4	15	0.05	0.99		
Ethylbenzene		1.5921	1.7835	1.6489	1.6210	1.6879	1.5197	1.3810	1.3375	AVRG		0.63636		1.5714	10	15	0.05	0.99		
m,p-Xylenes	0.6461	0.5864	0.6988	0.6248	0.6504	0.6661	0.5877	0.5219	0.5008	AVRG		1.64142		0.6092	11	15	0.05	0.99		
o-Xylene		0.5991	0.6930	0.6255	0.6376	0.6585	0.6070	0.5402	0.5297	AVRG		1.63574		0.6113	9	15	0.05	0.99		
Styrene		1.1083	1.0879	1.1308	1.1118	1.1497	1.0983	1.0048	0.9694	AVRG		0.92367		1.0826	6	15	0.05	0.99		
Bromoform		0.2143	0.3089	0.3004	0.3208	0.3386	0.3395	0.3404	0.3300	AVRG		3.20907		0.3116	13	15	0.10	0.99		
Isopropylbenzene		3.2934	3.3027	2.9721	3.3043	3.1581	2.7084	2.5605	2.4357	AVRG		0.33705		2.9669	12	15	0.05	0.99		
1,1,2,2-Tetrachloroethane		1.2953	1.0219	1.0180	1.1161	1.1087	1.0298	1.0046	0.9489	AVRG		0.93641		1.0679	10	15	0.30	0.99		
1,2,3-Trichloropropane		0.2338	0.2307	0.2204	0.2556	0.2449	0.2468	0.2273	0.2284	AVRG		4.23730		0.2360	5	15	0.05	0.99		
Propylbenzene		4.1522	4.4214	3.7697	4.2311	4.0358	3.3201	3.0605		AVRG		0.25935		3.8558	13	15	0.05	0.99		
Bromobenzene		0.9066	0.8583	0.8589	0.9522	0.9153	0.8597	0.8067	0.7655	AVRG		1.15553		0.8654	7	15	0.05	0.99		
1,3,5-Trimethylbenzene		2.6686	2.6722	2.4579	2.6652	2.5439	2.2278	2.0151	1.8855	AVRG		0.41806		2.3920	13	15	0.05	0.99		
2-Chlorotoluene		2.8952	2.6525	2.4534	2.7562	2.5800	2.2968	2.0760	1.9599	AVRG		0.40671		2.4588	13	15	0.05	0.99		
4-Chlorotoluene		2.6718	2.6854	2.3749	2.5051	2.4186	2.2579	2.0785	1.9906	AVRG		0.42143		2.3728	11	15	0.05	0.99		
tert-Butylbenzene		2.3846	2.2268	2.0216	2.2154	2.1311	1.9064	1.6845	1.6634	AVRG		0.49280		2.0292	13	15	0.05	0.99		
1,2,4-Trimethylbenzene		2.6303	2.4400	2.2944	2.5185	2.4716	2.2333	2.0409	2.0582	AVRG		0.42810		2.3359	9	15	0.05	0.99		
sec-Butylbenzene		3.3550	3.6946	3.1653	3.6588	3.5000	2.8555	2.5755	2.4625	AVRG		0.31662		3.1584	15	15	0.05	0.99		
para-Isopropyl Toluene		2.4227	2.7686	2.4201	2.6377	2.6497	2.3297	2.0319	1.9541	AVRG		0.41635		2.4018	12	15	0.05	0.99		
1,3-Dichlorobenzene		1.6642	1.6768	1.5778	1.6772	1.6432	1.5627	1.3743	1.3261	AVRG		0.63988		1.5628	9	15	0.05	0.99		
1,4-Dichlorobenzene		1.6616	1.6521	1.6332	1.6791	1.6431	1.5716	1.4499	1.3860	AVRG		0.63107		1.5846	7	15	0.05	0.99		
n-Butylbenzene		2.2536	2.4970	2.2007	2.3938	2.3543	2.0516	1.8408	1.7646	AVRG		0.46093		2.1695	12	15	0.05	0.99		
1,2-Dichlorobenzene		1.6249	1.6714	1.5285	1.5807	1.5374	1.5117	1.3773	1.3370	AVRG		0.65742		1.5211	8	15	0.05	0.99		
1,2-Dibromo-3-Chloropropane		0.2353	0.1236	0.1589	0.1673	0.1583	0.1582	0.1527		LINR	-0.3466	6.50364		0.1649	0.999	15	0.05	0.99		
1,2,4-Trichlorobenzene		0.8861	0.8331	0.7731	0.8582	0.8767	0.8570	0.8021	0.7945	AVRG		1.19744		0.8351	5	15	0.05	0.99		
Hexachlorobutadiene		0.3787	0.4093	0.3457	0.4040	0.4082	0.3309	0.2820	0.2865	AVRG		2.81167		0.3557	15	15	0.05	0.99		
Naphthalené		1.7576	1.5863	1.5093m	1.7390	1.6457	1.7611	1.7012	1.6289	AVRG		0.60019		1.6661	5	15	0.05	0.99		
1,2,3-Trichlorobenzene		0.7615	0.7281	0.7014	0.8290	0.8271	0.8208	0.7735	0.7515	AVRG		1.29180		0.7741	6	15	0.05	0.99		
tert-Butyl Alcohol (TBA)		0.0327m	0.0393	0.0385	0.0412	0.0420	0.0416	0.0432	0.0370	AVRG		25.3596		0.0394	9	15	0.005	0.99		
Isopropyl Ether (DIPE)		2.2421	2.2909	2.1700	2.1486	2.3290	2.1953	2.1098	2.1275	AVRG		0.45420		2.2017	4	15	0.05	0.99		

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2	Max	Min	Min	r^2	Flg
															%RSD	RF				
Ethyl tert-Butyl Ether (ETBE)		1.6018	1.6458	1.5538	1.6092	1.6923	1.6234	1.6142	1.5745	AVRG		0.61943		1.6144	3	15	0.05	0.99		
Methyl tert-Amyl Ether (TAME)		0.9089	0.9118	0.8267	0.8777	0.8522	0.8769	0.8159	0.8206	AVRG		1.16098		0.8613	4	15	0.05	0.99		
Dibromofluoromethane								0.5998		AVRG		1.66733		0.5998	0	15	0.05	0.99		
1,2-Dichloroethane-d4								0.3095		AVRG		3.23104		0.3095	0	15	0.05	0.99		
Toluene-d8								1.1067		AVRG		0.90357		1.1067	0	15	0.05	0.99		
Bromofluorobenzene								1.0227		AVRG		0.97778		1.0227	0	15	0.05	0.99		

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
Freon 12			1.000	4	2.000	-14	5.000	-23	10.00	-29	20.00	12	50.00	7	75.00	6	100.0	-6
Chloromethane			1.000	-7	2.000	1	5.000	-11	10.00	-13	20.00	20	50.00	7	75.00	4	100.0	-1
Vinyl Chloride	0.500	-7	1.000	1	2.000	-1	5.000	-14	10.00	-14	20.00	9	50.00	4	75.00	-3		
Bromomethane			1.000	46	2.000	3	5.000	-11	10.00	-11	20.00	9	50.00	-2	75.00	0		
Chloroethane			1.000	-6	2.000	3	5.000	-7	10.00	-8	20.00	15	50.00	2	75.00	6	100.0	-6
Trichlorofluoromethane			1.000	-17	2.000	-7	5.000	-9	10.00	-5	20.00	14	50.00	12	75.00	12	100.0	2
Acetone							5.000	-5	10.00	0	20.00	3	50.00	3	75.00	5	100.0	-5
1,1-Dichloroethene			0.500	13	2.000	9	5.000	-8	10.00	-5	20.00	8	50.00	1	75.00	-10	100.0	-7
Methylene Chloride					2.000	10	5.000	2	10.00	-2	20.00	7	50.00	-2	75.00	-6	100.0	-9
Carbon Disulfide			0.500	-8	2.000	8	5.000	-8	10.00	-1	20.00	15	50.00	3	75.00	-2	100.0	-6
MTBE			0.500	4	2.000	1	5.000	-4	10.00	-3	20.00	6	50.00	-1	75.00	1	100.0	-5
trans-1,2-Dichloroethene			0.500	17	2.000	16	5.000	-11	10.00	-5	20.00	3	50.00	-5	75.00	-7	100.0	-8
1,1-Dichloroethane			0.500	-10	2.000	11	5.000	-4	10.00	0	20.00	9	50.00	0	75.00	-3	100.0	-4
2-Butanone					2.000	2	5.000	-1	10.00	2	20.00	6	50.00	-2	75.00	-1	100.0	-6
2,2-Dichloropropane			0.500	-4	2.000	7	5.000	-2	10.00	1	20.00	16	50.00	0	75.00	-9	100.0	-10
cis-1,2-Dichloroethene			0.500	19	2.000	11	5.000	-8	10.00	-8	20.00	5	50.00	-3	75.00	-9	100.0	-8
Chloroform			0.500	4	2.000	12	5.000	-2	10.00	-6	20.00	5	50.00	-2	75.00	-5	100.0	-6
Bromochloromethane			0.500	-36	2.000	8	5.000	1	10.00	1	20.00	9	50.00	9	75.00	4	100.0	4
1,1,1-Trichloroethane			0.500	-10	2.000	10	5.000	-5	10.00	7	20.00	13	50.00	0	75.00	-8	100.0	-6
1,1-Dichloropropene			0.500	-4	2.000	9	5.000	-10	10.00	9	20.00	9	50.00	2	75.00	-9	100.0	-7
Carbon Tetrachloride			0.500	-17	2.000	17	5.000	-6	10.00	7	20.00	12	50.00	4	75.00	-12	100.0	-5
1,2-Dichloroethane			0.500	3	2.000	4	5.000	-6	10.00	-1	20.00	2	50.00	6	75.00	-7	100.0	0
Benzene			0.500	4	2.000	7	5.000	-3	10.00	1	20.00	2	50.00	2	75.00	-7	100.0	-6
Trichloroethene			0.500	-2	2.000	4	5.000	-9	10.00	8	20.00	2	50.00	5	75.00	-4	100.0	-5
1,2-Dichloropropane			0.500	-20	2.000	9	5.000	0	10.00	0	20.00	4	50.00	8	75.00	-2	100.0	2
Bromodichloromethane			0.500	8	2.000	-2	5.000	-5	10.00	-2	20.00	0	50.00	7	75.00	-4	100.0	-2
Dibromomethane			0.500	4	2.000	-4	5.000	-2	10.00	-1	20.00	1	50.00	6	75.00	-4	100.0	0
4-Methyl-2-Pentanone			0.500	-1	2.000	1	5.000	-6	10.00	2	20.00	0	50.00	6	75.00	0	100.0	-3
Toluene			0.500	13	2.000	11	5.000	-4	10.00	-1	20.00	-1	50.00	2	75.00	-10	100.0	-9
1,1,2-Trichloroethane			0.500	-4	2.000	5	5.000	-3	10.00	-1	20.00	4	50.00	3	75.00	-2	100.0	-2
2-Hexanone					2.000	-6	5.000	0	10.00	4	20.00	2	50.00	4	75.00	3	100.0	-6
1,3-Dichloropropane			0.500	-6	2.000	2	5.000	0	10.00	1	20.00	4	50.00	3	75.00	1	100.0	-3
Tetrachloroethene			0.500	10	2.000	7	5.000	-5	10.00	10	20.00	11	50.00	-5	75.00	-15	100.0	-14
Dibromochloromethane			0.500	8	2.000	-4	5.000	-6	10.00	-3	20.00	1	50.00	3	75.00	1	100.0	-1
1,2-Dibromoethane			0.500	-18	2.000	5	5.000	-3	10.00	7	20.00	2	50.00	6	75.00	-1	100.0	0
Chlorobenzene			0.500	7	2.000	11	5.000	0	10.00	-1	20.00	1	50.00	3	75.00	-10	100.0	-10
1,1,1,2-Tetrachloroethane			0.500	8	2.000	1	5.000	1	10.00	-2	20.00	1	50.00	0	75.00	-3	100.0	-6
Ethylbenzene			0.500	1	2.000	13	5.000	5	10.00	3	20.00	7	50.00	-3	75.00	-12	100.0	-15
m,p-Xylenes	0.500	6	1.000	-4	4.000	15	10.00	3	20.00	7	40.00	9	100.0	-4	150.0	-14	200.0	-18
o-Xylene			0.500	-2	2.000	13	5.000	2	10.00	4	20.00	8	50.00	-1	75.00	-12	100.0	-13
Styrene			0.500	2	2.000	0	5.000	4	10.00	3	20.00	6	50.00	1	75.00	-7	100.0	-10
Bromoform			0.500	-31	2.000	-1	5.000	-4	10.00	3	20.00	9	50.00	9	75.00	9	100.0	6

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
Isopropylbenzene			0.500	11	2.000	11	5.000	0	10.00	11	20.00	6	50.00	-9	75.00	-14	100.0	-18
1,1,2,2-Tetrachloroethane			0.500	21	2.000	-4	5.000	-5	10.00	5	20.00	4	50.00	-4	75.00	-6	100.0	-11
1,2,3-Trichloropropane			0.500	-1	2.000	-2	5.000	-7	10.00	8	20.00	4	50.00	5	75.00	-4	100.0	-3
Propylbenzene			0.500	8	2.000	15	5.000	-2	10.00	10	20.00	5	50.00	-14	75.00	-21		
Bromobenzene			0.500	5	2.000	-1	5.000	-1	10.00	10	20.00	6	50.00	-1	75.00	-7	100.0	-12
1,3,5-Trimethylbenzene			0.500	12	2.000	12	5.000	3	10.00	11	20.00	6	50.00	-7	75.00	-16	100.0	-21
2-Chlorotoluene			0.500	18	2.000	8	5.000	0	10.00	12	20.00	5	50.00	-7	75.00	-16	100.0	-20
4-Chlorotoluene			0.500	13	2.000	13	5.000	0	10.00	6	20.00	2	50.00	-5	75.00	-12	100.0	-16
tert-Butylbenzene			0.500	18	2.000	10	5.000	0	10.00	9	20.00	5	50.00	-6	75.00	-17	100.0	-18
1,2,4-Trimethylbenzene			0.500	13	2.000	4	5.000	-2	10.00	8	20.00	6	50.00	-4	75.00	-13	100.0	-12
sec-Butylbenzene			0.500	6	2.000	17	5.000	0	10.00	16	20.00	11	50.00	-10	75.00	-18	100.0	-22
para-Isopropyl Toluene			0.500	1	2.000	15	5.000	1	10.00	10	20.00	10	50.00	-3	75.00	-15	100.0	-19
1,3-Dichlorobenzene			0.500	6	2.000	7	5.000	1	10.00	7	20.00	5	50.00	0	75.00	-12	100.0	-15
1,4-Dichlorobenzene			0.500	5	2.000	4	5.000	3	10.00	6	20.00	4	50.00	-1	75.00	-8	100.0	-13
n-Butylbenzene			0.500	4	2.000	15	5.000	1	10.00	10	20.00	9	50.00	-5	75.00	-15	100.0	-19
1,2-Dichlorobenzene			0.500	7	2.000	10	5.000	0	10.00	4	20.00	1	50.00	-1	75.00	-9	100.0	-12
1,2-Dibromo-3-Chloropropane			0.500	-16	2.000	-37	5.000	-4	10.00	5	20.00	1	50.00	2	75.00	-1		
1,2,4-Trichlorobenzene			0.500	6	2.000	0	5.000	-7	10.00	3	20.00	5	50.00	3	75.00	-4	100.0	-5
Hexachlorobutadiene			0.500	6	2.000	15	5.000	-3	10.00	14	20.00	15	50.00	-7	75.00	-21	100.0	-19
Naphthalene			0.500	5	2.000	-5	5.000	-9	10.00	4	20.00	-1	50.00	6	75.00	2	100.0	-2
1,2,3-Trichlorobenzene			0.500	-2	2.000	-6	5.000	-9	10.00	7	20.00	7	50.00	6	75.00	0	100.0	-3
tert-Butyl Alcohol (TBA)		5.000	-17	20.00	0	50.00	-2	100.0	4	200.0	7	500.0	6	750.0	10	1000	-6	
Isopropyl Ether (DIPE)		0.500	2	2.000	4	5.000	-1	10.00	-2	20.00	6	50.00	0	75.00	-4	100.0	-3	
Ethyl tert-Butyl Ether (ETBE)		0.500	-1	2.000	2	5.000	-4	10.00	0	20.00	5	50.00	1	75.00	0	100.0	-2	
Methyl tert-Amyl Ether (TAME)		0.500	6	2.000	6	5.000	-4	10.00	2	20.00	-1	50.00	2	75.00	-5	100.0	-5	
Dibromofluoromethane															50.00	0		
1,2-Dichloroethane-d4															50.00	0		
Toluene-d8															50.00	0		
Bromofluorobenzene															50.00	0		

Analyst: MJM

Date: 05/13/08

Reviewer: LW

Date: 05/14/08

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor; LINR=Linear regression; QUAD=Quadratic regression

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488192017001

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 203803 MSVOA Water
EPA 8260B

Inst : MSVOA09
Calnum : 488192017001

Name : 826GOX9W
Cal Date : 12-MAY-2008

Type : WATER

ICV 488192017027 (iec27 13-MAY-2008) stds: S8985 (10000X), S9023 (10000X),
S9058 (2500X)

ICV 488193450003 (ied03 13-MAY-2008) stds: S9163 (10000X), S9058 (2500X)

Analyte	ICV Seqnum	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Freon 12	488193450003	0.6879	0.5613	25.00	17.57	ug/L	-30	25	v- ***
Chloromethane	488193450003	0.9140	0.9549	25.00	26.12	ug/L	4	25	m
Vinyl Chloride	488193450003	0.6837	0.7535	25.00	24.61	ug/L	-2	25	m
Bromomethane	488193450003	0.3287	0.3089	25.00	22.66	ug/L	-9	25	m
Chloroethane	488193450003	0.4495	0.4771	25.00	26.54	ug/L	6	25	
Trichlorofluoromethane	488193450003	0.6893	0.6670	25.00	24.19	ug/L	-3	25	
Acetone	488192017027	0.2137	0.2163	25.00	25.30	ug/L	1	25	
1,1-Dichloroethene	488192017027	0.4343	0.4104	25.00	23.63	ug/L	-6	25	
Methylene Chloride	488192017027	0.6329	0.6257	25.00	24.71	ug/L	-1	25	
Carbon Disulfide	488192017027	1.8973	1.6004	25.00	21.09	ug/L	-16	25	
MTBE	488192017027	1.2372	1.2961	25.00	26.19	ug/L	5	25	
trans-1,2-Dichloroethene	488192017027	0.5194	0.5168	25.00	24.88	ug/L	0	25	
1,1-Dichloroethane	488192017027	0.9522	0.9605	25.00	25.22	ug/L	1	25	
2-Butanone	488192017027	0.3076	0.2901	25.00	23.57	ug/L	-6	25	
2,2-Dichloropropane	488192017027	0.5530	0.5262	25.00	23.79	ug/L	-5	25	
cis-1,2-Dichloroethene	488192017027	0.5780	0.5851	25.00	25.31	ug/L	1	25	
Chloroform	488192017027	0.8826	0.8879	25.00	25.15	ug/L	1	25	
Bromochloromethane	488192017027	0.2847	0.3168	25.00	27.82	ug/L	11	25	
1,1,1-Trichloroethane	488192017027	0.5815	0.5553	25.00	23.87	ug/L	-5	25	
1,1-Dichloropropene	488192017027	0.3941	0.3882	25.00	24.63	ug/L	-1	25	
Carbon Tetrachloride	488192017027	0.3104	0.3152	25.00	25.39	ug/L	2	25	
1,2-Dichloroethane	488192017027	0.3838	0.3821	25.00	24.89	ug/L	0	25	
Benzene	488192017027	1.2277	1.2771	25.00	26.01	ug/L	4	25	
Trichloroethere	488192017027	0.3241	0.3446	25.00	26.58	ug/L	6	25	
1,2-Dichloropropane	488192017027	0.3778	0.3878	25.00	25.66	ug/L	3	25	
Bromodichloromethane	488192017027	0.4221	0.4433	25.00	26.25	ug/L	5	25	
Dibromomethane	488192017027	0.2610	0.2656	25.00	25.44	ug/L	2	25	
4-Methyl-2-Pentanone	488192017027	0.4312	0.3819	25.00	22.14	ug/L	-11	25	
Toluene	488192017027	0.7661	0.7553	25.00	24.65	ug/L	-1	25	
1,1,2-Trichloroethane	488192017027	0.1816	0.1876	25.00	25.82	ug/L	3	25	
2-Hexanone	488192017027	0.3449	0.3304	25.00	23.95	ug/L	-4	25	
1,3-Dichloropropane	488192017027	0.5930	0.6341	25.00	26.74	ug/L	7	25	
Tetrachloroethene	488192017027	0.3633	0.3865	25.00	26.60	ug/L	6	25	
Dibromochloromethane	488192017027	0.4347	0.4550	25.00	26.17	ug/L	5	25	
1,2-Dibromoethane	488192017027	0.3597	0.3876	25.00	26.94	ug/L	8	25	
Chlorobenzene	488192017027	0.9836	1.0333	25.00	26.26	ug/L	5	25	
1,1,1,2-Tetrachloroethane	488192017027	0.3461	0.3680	25.00	26.58	ug/L	6	25	
Ethylbenzene	488192017027	1.5714	1.7104	25.00	27.21	ug/L	9	25	
n,p-Xylenes	488192017027	0.6092	0.6457	50.00	52.99	ug/L	6	25	
o-Xylene	488192017027	0.6113	0.6358	25.00	26.00	ug/L	4	25	
Styrene	488192017027	1.0826	1.1436	25.00	26.41	ug/L	6	25	
Bromoform	488192017027	0.3116	0.3360	25.00	26.95	ug/L	8	25	
Isopropylbenzene	488192017027	2.9669	2.6769	25.00	22.56	ug/L	-10	25	
1,1,2,2-Tetrachloroethane	488192017027	1.0679	1.0073	25.00	23.58	ug/L	-6	25	
1,2,3-Trichloropropane	488192017027	0.2360	0.2417	25.00	25.60	ug/L	2	25	
Propylbenzene	488192017027	3.8558	3.8522	25.00	24.98	ug/L	0	25	
Bromobenzene	488192017027	0.8654	0.9626	25.00	27.81	ug/L	11	25	

Analyte	ICV Seqnum	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
1,3,5-Trimethylbenzene	488192017027	2.3920	2.5917	25.00	27.09	ug/L	8	25	
2-Chlorotoluene	488192017027	2.4588	2.5960	25.00	26.40	ug/L	6	25	
-Chlorotoluene	488192017027	2.3728	2.3986	25.00	25.27	ug/L	1	25	
tert-Butylbenzene	488192017027	2.0292	1.9888	25.00	24.50	ug/L	-2	25	
1,2,4-Trimethylbenzene	488192017027	2.3359	2.6293	25.00	28.14	ug/L	13	25	
sec-Butylbenzene	488192017027	3.1584	3.3959	25.00	26.68	ug/L	8	25	
para-Isopropyl Toluene	488192017027	2.4018	2.4540	25.00	25.54	ug/L	2	25	
1,3-Dichlorobenzene	488192017027	1.5628	1.6476	25.00	26.36	ug/L	5	25	
1,4-Dichlorobenzene	488192017027	1.5846	1.6661	25.00	26.29	ug/L	5	25	
n-Butylbenzene	488192017027	2.1695	2.3654	25.00	27.26	ug/L	9	25	
1,2-Dichlorobenzene	488192017027	1.5211	1.6411	25.00	26.97	ug/L	8	25	
1,2-Dibromo-3-Chloropropane	488192017027	0.1649	0.1530	25.00	24.52	ug/L	-2	25	
1,2,4-Trichlorobenzene	488192017027	0.8351	0.9205	25.00	27.56	ug/L	10	25	
Hexachlorobutadiene	488192017027	0.3557	0.3794	25.00	26.67	ug/L	7	25	
Naphthalene	488192017027	1.6661	1.7182	25.00	25.78	ug/L	3	25	
1,2,3-Trichlorobenzene	488192017027	0.7741	0.8451	25.00	27.29	ug/L	9	25	
tert-Butyl Alcohol (TBA)	488192017027	0.0394	0.0387	125.0	122.6	ug/L	-2	25	
Isopropyl Ether (DIPE)	488192017027	2.2017	2.4073	25.00	27.34	ug/L	9	25	
Ethyl tert-Butyl Ether (ETBE)	488192017027	1.6144	1.7092	25.00	26.47	ug/L	6	25	
Methyl tert-Amyl Ether (TAME)	488192017027	0.8613	0.8769	25.00	25.45	ug/L	2	25	

=low bias m=manual integration v=ICV

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 203803 MSVOA Water: EPA 8260B

Inst : MSVOA09

Calnum : 488216505001

Units : ug/L

Date : 29-MAY-2008 09:12

Type : WATER

X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	iet03	488216505003	SURR @ 50PPB	29-MAY-2008 09:12	S9084 (16670X), S9035 (33330X), S9317 (2500X)

Analyte	L1	Type	a0	a1	a2	Avg	r^2	Max %RSD	Min RF	Min r^2	Fig
Dibromofluoromethane	0.5950	AVRG		1.68066		0.5950	0	15	0.05	0.99	
1,2-Dichloroethane-d4	0.3872	AVRG		2.58255		0.3872	0	15	0.05	0.99	
Toluene-d8	1.0894	AVRG		0.91796		1.0894	0	15	0.05	0.99	
Bromofluorobenzene	1.1032	AVRG		0.90642		1.1032	0	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D
Dibromofluoromethane	50.00	0
1,2-Dichloroethane-d4	50.00	0
Toluene-d8	50.00	0
Bromofluorobenzene	50.00	0

Analyst: MJMDate: 05/29/08Reviewer: ACMDate: 05/30/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

Page 1 of 1

488216505001

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 203803 MSVOA Water
EPA 8260B

Inst : MSVOA09 Run Name : 35PPB IDF : 1.0
Seqnum : 488233770005.1 File : ifa05 Time : 10-JUN-2008 11:33
Caltype : WATER
Standards: S9221 (14290X), S9084 (14290X), S9035 (28570X), S9421 (2500X)

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	488192017001	12-MAY-2008	0.6879	1.0186	35.00	43.94	ug/L	26	30	0.0500	
Chloromethane	488192017001	12-MAY-2008	0.9140	1.0149	35.00	38.87	ug/L	11	30	0.1000	m
Vinyl Chloride	488192017001	12-MAY-2008	0.6837	0.7896	35.00	36.02	ug/L	3	20	0.0500	m
Bromomethane	488192017001	12-MAY-2008	0.3287	0.3019	35.00	30.17	ug/L	-14	30	0.0500	m
Chloroethane	488192017001	12-MAY-2008	0.4495	0.4772	35.00	37.15	ug/L	6	30	0.0500	
Trichlorofluoromethane	488192017001	12-MAY-2008	0.6893	0.9167	35.00	46.55	ug/L	33	30	0.0500	c+ ***
Acetone	488192017001	12-MAY-2008	0.2137	0.2643	35.00	43.28	ug/L	24	30	0.0500	
1,1-Dichloroethene	488192017001	12-MAY-2008	0.4343	0.4530	35.00	36.50	ug/L	4	20	0.0500	
Methylene Chloride	488192017001	12-MAY-2008	0.6329	0.6332	35.00	35.01	ug/L	0	30	0.0500	
Carbon Disulfide	488192017001	12-MAY-2008	1.8973	2.0071	35.00	37.03	ug/L	6	30	0.0500	
**TBE	488192017001	12-MAY-2008	1.2372	1.3733	35.00	39.02	ug/L	11	30	0.0500	
1,1,2-Dichloroethene	488192017001	12-MAY-2008	0.5194	0.5177	35.00	34.89	ug/L	0	30	0.0500	
1,1-Dichloroethane	488192017001	12-MAY-2008	0.9522	1.0226	35.00	37.59	ug/L	7	30	0.1000	
2-Butanone	488192017001	12-MAY-2008	0.3076	0.3354	35.00	38.16	ug/L	9	30	0.0500	
2,2-Dichloropropane	488192017001	12-MAY-2008	0.5530	0.7023	35.00	44.45	ug/L	27	30	0.0500	
cis-1,2-Dichloroethene	488192017001	12-MAY-2008	0.5780	0.5560	35.00	33.67	ug/L	-4	30	0.0500	
Chloroform	488192017001	12-MAY-2008	0.8826	0.9889	35.00	39.22	ug/L	12	20	0.0500	
Bromochloromethane	488192017001	12-MAY-2008	0.2847	0.3000	35.00	36.88	ug/L	5	30	0.0500	
1,1,1-Trichloroethane	488192017001	12-MAY-2008	0.5815	0.7000	35.00	42.14	ug/L	20	30	0.0500	
1,1-Dichloropropene	488192017001	12-MAY-2008	0.3941	0.4307	35.00	38.25	ug/L	9	30	0.0500	
Carbon Tetrachloride	488192017001	12-MAY-2008	0.3104	0.3844	35.00	43.35	ug/L	24	30	0.0500	
1,2-Dichloroethane	488192017001	12-MAY-2008	0.3838	0.4623	35.00	42.16	ug/L	20	30	0.0500	
Benzene	488192017001	12-MAY-2008	1.2277	1.2220	35.00	34.84	ug/L	0	30	0.0500	
Trichloroethene	488192017001	12-MAY-2008	0.3241	0.3293	35.00	35.56	ug/L	2	30	0.0500	
1,2-Dichloropropane	488192017001	12-MAY-2008	0.3778	0.4042	35.00	37.45	ug/L	7	20	0.0500	
Bromodichloromethane	488192017001	12-MAY-2008	0.4221	0.4696	35.00	38.94	ug/L	11	30	0.0500	
Dibromomethane	488192017001	12-MAY-2008	0.2610	0.2637	35.00	35.37	ug/L	1	30	0.0500	
4-Methyl-2-Pentanone	488192017001	12-MAY-2008	0.4312	0.4342	35.00	35.25	ug/L	1	30	0.0500	
Toluene	488192017001	12-MAY-2008	0.7661	0.7120	35.00	32.53	ug/L	-7	20	0.0500	
1,1,2-Trichloroethane	488192017001	12-MAY-2008	0.1816	0.1814	35.00	34.97	ug/L	0	30	0.0500	
2-Hexanone	488192017001	12-MAY-2008	0.3449	0.3691	35.00	37.46	ug/L	7	30	0.0500	
1,3-Dichloropropane	488192017001	12-MAY-2008	0.5930	0.6244	35.00	36.85	ug/L	5	30	0.0500	
Tetrachloroethene	488192017001	12-MAY-2008	0.3633	0.3240	35.00	31.21	ug/L	-11	30	0.0500	
Dibromochloromethane	488192017001	12-MAY-2008	0.4347	0.4442	35.00	35.77	ug/L	2	30	0.0500	
1,2-Dibromoethane	488192017001	12-MAY-2008	0.3597	0.3530	35.00	34.35	ug/L	-2	30	0.0500	
Chlorobenzene	488192017001	12-MAY-2008	0.9836	0.9332	35.00	33.21	ug/L	-5	30	0.3000	
1,1,1,2-Tetrachloroethane	488192017001	12-MAY-2008	0.3461	0.3442	35.00	34.80	ug/L	-1	30	0.0500	
Ethylbenzene	488192017001	12-MAY-2008	1.5714	1.5707	35.00	34.98	ug/L	0	20	0.0500	
m,p-Xylenes	488192017001	12-MAY-2008	0.6092	0.5273	70.00	60.59	ug/L	-13	30	0.0500	
o-Xylene	488192017001	12-MAY-2008	0.6113	0.5719	35.00	32.74	ug/L	-6	30	0.0500	
Styrene	488192017001	12-MAY-2008	1.0826	1.0279	35.00	33.23	ug/L	-5	30	0.0500	
Bromoform	488192017001	12-MAY-2008	0.3116	0.3171	35.00	35.62	ug/L	2	30	0.1000	
Isopropylbenzene	488192017001	12-MAY-2008	2.9669	3.0416	35.00	35.88	ug/L	3	30	0.0500	
1,1,2,2-Tetrachloroethane	488192017001	12-MAY-2008	1.0679	1.1593	35.00	38.00	ug/L	9	30	0.3000	
1,2,3-Trichloropropane	488192017001	12-MAY-2008	0.2360	0.2774	35.00	41.14	ug/L	18	30	0.0500	
Propylbenzene	488192017001	12-MAY-2008	3.8558	4.0025	35.00	36.33	ug/L	4	30	0.0500	
Bromobenzene	488192017001	12-MAY-2008	0.8654	0.9345	35.00	37.79	ug/L	8	30	0.0500	
1,3,5-Trimethylbenzene	488192017001	12-MAY-2008	2.3320	2.4747	35.00	36.21	ug/L	3	30	0.0500	

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Qnt	Units	%D	Max %D	Min RF	Flags
2-Chlorotoluene	488192017001	12-MAY-2008	2.4588	2.6898	35.00	38.29	ug/L	9	30	0.0500	
4-Chlorotoluene	488192017001	12-MAY-2008	2.3728	2.6506	35.00	39.10	ug/L	12	30	0.0500	
tert-Butylbenzene	488192017001	12-MAY-2008	2.0292	1.9379	35.00	33.42	ug/L	-5	30	0.0500	
1,2,4-Trimethylbenzene	488192017001	12-MAY-2008	2.3359	2.5842	35.00	38.72	ug/L	11	30	0.0500	
sec-Butylbenzene	488192017001	12-MAY-2008	3.1584	3.0645	35.00	33.96	ug/L	-3	30	0.0500	
para-Isopropyl Toluene	488192017001	12-MAY-2008	2.4018	2.3764	35.00	34.63	ug/L	-1	30	0.0500	
1,3-Dichlorobenzene	488192017001	12-MAY-2008	1.5628	1.5281	35.00	34.22	ug/L	-2	30	0.0500	
1,4-Dichlorobenzene	488192017001	12-MAY-2008	1.5846	1.6225	35.00	35.84	ug/L	2	30	0.0500	
n-Butylbenzene	488192017001	12-MAY-2008	2.1695	2.3707	35.00	38.25	ug/L	9	30	0.0500	
1,2-Dichlorobenzene	488192017001	12-MAY-2008	1.5211	1.5522	35.00	35.71	ug/L	2	30	0.0500	
1,2-Dibromo-3-Chloropropane	488192017001	12-MAY-2008	0.1649	0.1881	35.00	42.46	ug/L	21	30	0.0500	
1,2,4-Trichlorobenzene	488192017001	12-MAY-2008	0.8351	0.8599	35.00	36.04	ug/L	3	30	0.0500	
Hexachlorobutadiene	488192017001	12-MAY-2008	0.3557	0.3203	35.00	31.52	ug/L	-10	30	0.0500	
Naphthalene	488192017001	12-MAY-2008	1.6661	1.9231	35.00	40.40	ug/L	15	30	0.0500	
1,2,3-Trichlorobenzene	488192017001	12-MAY-2008	0.7741	0.8143	35.00	36.81	ug/L	5	30	0.0500	
tert-Butyl Alcohol (TBA)	488192017001	12-MAY-2008	0.0394	0.0486	350.0	431.8	ug/L	23	30	0.0050	
Isopropyl Ether (DIPE)	488192017001	12-MAY-2008	2.2017	2.2299	35.00	35.45	ug/L	1	30	0.0500	
Ethyl tert-Butyl Ether (ETBE)	488192017001	12-MAY-2008	1.6144	1.7811	35.00	38.61	ug/L	10	30	0.0500	
Methyl tert-Amyl Ether (TAME)	488192017001	12-MAY-2008	0.8613	0.8860	35.00	36.00	ug/L	3	30	0.0500	
Dibromofluoromethane	488216505001	29-MAY-2008	0.5950	0.6466	50.00	54.33	ug/L	9	30	0.0500	
1,2-Dichloroethane-d4	488216505001	29-MAY-2008	0.3872	0.3823	50.00	49.37	ug/L	-1	30	0.0500	
Toluene-d8	488216505001	29-MAY-2008	1.0894	1.0235	50.00	46.98	ug/L	-6	30	0.0500	
Bromofluorobenzene	488216505001	29-MAY-2008	1.1032	1.1912	50.00	53.99	ug/L	8	30	0.0500	

ISTD (ICAL iec23)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	703475	482438	-31.42	12.37	12.36	-0.01
1,4-Difluorobenzene	1044881	777785	-25.56	13.66	13.64	-0.02
Chlorobenzene-d5	935223	683399	-26.93	17.68	17.67	-0.01
1,4-Dichlorobenzene-d4	485271	309459	-36.23	20.19	20.18	-0.01

ISTD (ICAL iet03)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	693612	482438	-30.45	12.36	12.36	0.01
1,4-Difluorobenzene	1017490	777785	-23.56	13.64	13.64	0.00
1,4-Dichlorobenzene-d4	399921	309459	-22.62	20.18	20.18	0.00

Analyst: MJD Date: 06/13/08 Reviewer: BO Date: 06/13/08
 +high bias c=CCV m=manual integration
 Page 2 of 2 488233770005.1

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 203803 MSVOA Water
EPA 8260B

Inst : MSVOA09
Seqnum : 488233770009.1

Run Name : 35PPB IDF : 1.0
File : ifa09 Time : 10-JUN-2008 13:32
Caltype : WATER

Standards: S9221 (14290X), S9084 (14290X), S9035 (28570X), S9421 (2500X)

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Qjant	Units	%D	Max %D	Min RF	Flags
Freon 12	488192017001	12-MAY-2008	0.6879	1.0011	35.00	43.19	ug/L	23	30	0.0500	
Chloromethane	488192017001	12-MAY-2008	0.9140	1.0106	35.00	38.70	ug/L	11	30	0.1000	
Vinyl Chloride	488192017001	12-MAY-2008	0.6837	0.8132	35.00	37.09	ug/L	6	20	0.0500	
Bromomethane	488192017001	12-MAY-2008	0.3287	0.3122	35.00	31.09	ug/L	-11	30	0.0500	m
Chloroethane	488192017001	12-MAY-2008	0.4495	0.4683	35.00	36.46	ug/L	4	30	0.0500	
Trichlorofluoromethane	488192017001	12-MAY-2008	0.6893	0.9132	35.00	46.37	ug/L	32	30	0.0500	c+ ***
Acetone	488192017001	12-MAY-2008	0.2137	0.2562	35.00	41.96	ug/L	20	30	0.0500	
1,1-Dichloroethene	488192017001	12-MAY-2008	0.4343	0.4501	35.00	36.27	ug/L	4	20	0.0500	
Methylene Chloride	488192017001	12-MAY-2008	0.6329	0.6415	35.00	35.47	ug/L	1	30	0.0500	
Carbon Disulfide	488192017001	12-MAY-2008	1.8973	1.9790	35.00	36.51	ug/L	4	30	0.0500	
***TBE	488192017001	12-MAY-2008	1.2372	1.3611	35.00	38.51	ug/L	10	30	0.0500	
trans-1,2-Dichloroethene	488192017001	12-MAY-2008	0.5194	0.5091	35.00	34.30	ug/L	-2	30	0.0500	
1,1-Dichloroethane	488192017001	12-MAY-2008	0.9522	0.9944	35.00	36.55	ug/L	4	30	0.1000	
2-Butanone	488192017001	12-MAY-2008	0.3076	0.3383	35.00	38.49	ug/L	10	30	0.0500	
2,2-Dichloropropane	488192017001	12-MAY-2008	0.5530	0.6947	35.00	43.97	ug/L	26	30	0.0500	
cis-1,2-Dichloroethene	488192017001	12-MAY-2008	0.5780	0.5680	35.00	34.40	ug/L	-2	30	0.0500	
Chloroform	488192017001	12-MAY-2008	0.8826	0.9655	35.00	38.29	ug/L	9	20	0.0500	
Bromoform	488192017001	12-MAY-2008	0.2847	0.3124	35.00	38.40	ug/L	10	30	0.0500	
1,1,1-Trichloroethane	488192017001	12-MAY-2008	0.5815	0.6406	35.00	38.56	ug/L	10	30	0.0500	
1,1-Dichloropropene	488192017001	12-MAY-2008	0.3941	0.4101	35.00	36.42	ug/L	4	30	0.0500	
Carbon Tetrachloride	488192017001	12-MAY-2008	0.3104	0.3437	35.00	38.76	ug/L	11	30	0.0500	
1,2-Dichloroethane	488192017001	12-MAY-2008	0.3838	0.4466	35.00	40.73	ug/L	16	30	0.0500	
Benzene	488192017001	12-MAY-2008	1.2277	1.2414	35.00	35.39	ug/L	1	30	0.0500	
Trichloroethene	488192017001	12-MAY-2008	0.3241	0.3113	35.00	33.62	ug/L	-4	30	0.0500	
1,2-Dichloropropane	488192017001	12-MAY-2008	0.3778	0.3797	35.00	35.17	ug/L	0	20	0.0500	
Bromodichloromethane	488192017001	12-MAY-2008	0.4221	0.4526	35.00	37.53	ug/L	7	30	0.0500	
Dibromomethane	488192017001	12-MAY-2008	0.2610	0.2659	35.00	35.67	ug/L	2	30	0.0500	
4-Methyl-2-Pentanone	488192017001	12-MAY-2008	0.4312	0.4294	35.00	34.86	ug/L	0	30	0.0500	
Toluene	488192017001	12-MAY-2008	0.7661	0.6862	35.00	31.35	ug/L	-10	20	0.0500	
1,1,2-Trichloroethane	488192017001	12-MAY-2008	0.1816	0.1794	35.00	34.57	ug/L	-1	30	0.0500	
2-Hexanone	488192017001	12-MAY-2008	0.3449	0.3712	35.00	37.67	ug/L	8	30	0.0500	
1,3-Dichloropropane	488192017001	12-MAY-2008	0.5930	0.6052	35.00	35.72	ug/L	2	30	0.0500	
Tetrachloroethene	488192017001	12-MAY-2008	0.3633	0.3182	35.00	30.65	ug/L	-12	30	0.0500	
Dibromochloromethane	488192017001	12-MAY-2008	0.4347	0.4432	35.00	35.68	ug/L	2	30	0.0500	
1,2-Dibromoethane	488192017001	12-MAY-2008	0.3597	0.3671	35.00	35.72	ug/L	2	30	0.0500	
Chlorobenzene	488192017001	12-MAY-2008	0.9836	0.9469	35.00	33.69	ug/L	-4	30	0.3000	
1,1,1,2-Tetrachloroethane	488192017001	12-MAY-2008	0.3461	0.3200	35.00	32.36	ug/L	-8	30	0.0500	
Ethylbenzene	488192017001	12-MAY-2008	1.5714	1.5476	35.00	34.47	ug/L	-2	20	0.0500	
m,p-Xylenes	488192017001	12-MAY-2008	0.6092	0.5522	70.00	63.44	ug/L	-9	30	0.0500	
o-Xylene	488192017001	12-MAY-2008	0.6113	0.5760	35.00	32.98	ug/L	-6	30	0.0500	
Styrene	488192017001	12-MAY-2008	1.0826	1.0321	35.00	33.37	ug/L	-5	30	0.0500	
Bromoform	488192017001	12-MAY-2008	0.3116	0.3311	35.00	37.19	ug/L	6	30	0.1000	
Isopropylbenzene	488192017001	12-MAY-2008	2.9669	2.8053	35.00	33.09	ug/L	-5	30	0.0500	
1,1,2,2-Tetrachloroethane	488192017001	12-MAY-2008	1.0679	1.1418	35.00	37.42	ug/L	7	30	0.3000	
1,2,3-Trichloropropane	488192017001	12-MAY-2008	0.2360	0.2633	35.00	39.05	ug/L	12	30	0.0500	
Propylbenzene	488192017001	12-MAY-2008	3.8558	3.4705	35.00	31.50	ug/L	-10	30	0.0500	
Bromobenzene	488192017001	12-MAY-2008	0.8654	0.8742	35.00	35.36	ug/L	1	30	0.0500	
1,3,5-Trimethylbenzene	488192017001	12-MAY-2008	2.3920	2.2520	35.00	32.95	ug/L	-6	30	0.0500	

Analyte	Cal	Caldate	Avg	RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
2-Chlorotoluene	488192017001	12-MAY-2008	2.4588	2.4786	35.00	35.28	ug/L	1	30	0.0500		
4-Chlorotoluene	488192017001	12-MAY-2008	2.3728	2.3704	35.00	34.96	ug/L	0	30	0.0500		
tert-Butylbenzene	488192017001	12-MAY-2008	2.0292	1.8166	35.00	31.33	ug/L	-10	30	0.0500		
1,2,4-Trimethylbenzene	488192017001	12-MAY-2008	2.3359	2.2763	35.00	34.11	ug/L	-3	30	0.0500		
sec-Butylbenzene	488192017001	12-MAY-2008	3.1584	2.7686	35.00	30.68	ug/L	-12	30	0.0500		
para-Isopropyl Toluene	488192017001	12-MAY-2008	2.4018	2.2221	35.00	32.38	ug/L	-7	30	0.0500		
1,3-Dichlorobenzene	488192017001	12-MAY-2008	1.5628	1.5057	35.00	33.72	ug/L	-4	30	0.0500		
1,4-Dichlorobenzene	488192017001	12-MAY-2008	1.5846	1.5368	35.00	33.95	ug/L	-3	30	0.0500		
n-Butylbenzene	488192017001	12-MAY-2008	2.1695	2.0585	35.00	33.21	ug/L	-5	30	0.0500		
1,2-Dichlorobenzene	488192017001	12-MAY-2008	1.5211	1.4853	35.00	34.18	ug/L	-2	30	0.0500		
1,2-Dibromo-3-Chloropropane	488192017001	12-MAY-2008	0.1649	0.1850	35.00	41.77	ug/L	19	30	0.0500		
1,2,4-Trichlorobenzene	488192017001	12-MAY-2008	0.8351	0.7868	35.00	32.98	ug/L	-6	30	0.0500		
Hexachlorobutadiene	488192017001	12-MAY-2008	0.3557	0.2834	35.00	27.89	ug/L	-20	30	0.0500		
Naphthalene	488192017001	12-MAY-2008	1.6661	1.7941	35.00	37.69	ug/L	8	30	0.0500		
1,2,3-Trichlorobenzene	488192017001	12-MAY-2008	0.7741	0.7187	35.00	32.50	ug/L	-7	30	0.0500		
tert-Butyl Alcohol (TBA)	488192017001	12-MAY-2008	0.0394	0.0496	350.0	440.0	ug/L	26	30	0.0050		
Isopropyl Ether (DIPE)	488192017001	12-MAY-2008	2.2017	2.3392	35.00	37.19	ug/L	6	30	0.0500		
Ethyl tert-Butyl Ether (ETBE)	488192017001	12-MAY-2008	1.6144	1.7889	35.00	38.78	ug/L	11	30	0.0500		
Methyl tert-Amyl Ether (TAME)	488192017001	12-MAY-2008	0.8613	0.9001	35.00	36.57	ug/L	4	30	0.0500		
Dibromofluoromethane	488216505001	29-MAY-2008	0.5950	0.6150	50.00	51.68	ug/L	3	30	0.0500		
1,2-Dichloroethane-d4	488216505001	29-MAY-2008	0.3872	0.3656	50.00	47.21	ug/L	-6	30	0.0500		
Toluene-d8	488216505001	29-MAY-2008	1.0894	1.0447	50.00	47.95	ug/L	-4	30	0.0500		
Bromofluorobenzene	488216505001	29-MAY-2008	1.1032	1.1919	50.00	54.02	ug/L	8	30	0.0500		

ISTD (ICAL iec23)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	703475	468271	-33.43	12.37	12.36	-0.01
1,4-Difluorobenzene	1044881	764520	-26.83	13.66	13.64	-0.02
Chlorobenzene-d5	935223	657821	-29.66	17.68	17.67	-0.01
1,4-Dichlorobenzene-d4	485271	313520	-35.39	20.19	20.18	-0.01

ISTD (ICAL iet03)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	693612	468271	-32.49	12.36	12.36	0.01
1,4-Difluorobenzene	1017490	764520	-24.86	13.64	13.64	0.00
1,4-Dichlorobenzene-d4	399921	313520	-21.60	20.18	20.18	0.00

Analyst: MJD Date: 06/13/08 Reviewer: BO Date: 06/13/08

+=high bias c=CCV m=manual integration

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488233770009.1

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 203803 MSVOA Water
EPA 8260B

Inst : MSVOA09 Run Name : 35PPB IDF : 1.0
Seqnum : 488235230006.1 File : ifb06 Time : 11-JUN-2008 11:19
Caltype : WATER
Standards: S9221 (14290X), S9084 (14290X), S9036 (28570X), S9421 (2500X)

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	488192017001	12-MAY-2008	0.6879	0.8522	35.00	36.84	ug/L	5	30	0.0500	m
Chloromethane	488192017001	12-MAY-2008	0.9140	0.8641	35.00	33.09	ug/L	-5	30	0.1000	
Vinyl Chloride	488192017001	12-MAY-2008	0.6837	0.7372	35.00	33.64	ug/L	-4	20	0.0500	
Bromomethane	488192017001	12-MAY-2008	0.3287	0.2976	35.00	29.78	ug/L	-15	30	0.0500	m
Chloroethane	488192017001	12-MAY-2008	0.4495	0.4480	35.00	34.88	ug/L	0	30	0.0500	
Trichlorofluoromethane	488192017001	12-MAY-2008	0.6893	0.8317	35.00	42.23	ug/L	21	30	0.0500	
Acetone	488192017001	12-MAY-2008	0.2137	0.2634	35.00	43.13	ug/L	23	30	0.0500	
1,1-Dichloroethene	488192017001	12-MAY-2008	0.4343	0.4270	35.00	34.42	ug/L	-2	20	0.0500	
Methylene Chloride	488192017001	12-MAY-2008	0.6329	0.6023	35.00	33.30	ug/L	-5	30	0.0500	
Carbon Disulfide	488192017001	12-MAY-2008	1.8973	1.8372	35.00	33.89	ug/L	-3	30	0.0500	
MTBE	488192017001	12-MAY-2008	1.2372	1.3407	35.00	37.93	ug/L	8	30	0.0500	
cis-1,2-Dichloroethene	488192017001	12-MAY-2008	0.5194	0.4985	35.00	33.59	ug/L	-4	30	0.0500	
trans-1,2-Dichloroethane	488192017001	12-MAY-2008	0.9522	0.9723	35.00	35.74	ug/L	2	30	0.1000	
2-Butanone	488192017001	12-MAY-2008	0.3076	0.3270	35.00	37.21	ug/L	6	30	0.0500	
2,2-Dichloropropane	488192017001	12-MAY-2008	0.5530	0.6439	35.00	40.75	ug/L	16	30	0.0500	
cis-1,2-Dichloroethene	488192017001	12-MAY-2008	0.5780	0.5412	35.00	32.78	ug/L	-6	30	0.0500	
Chloroform	488192017001	12-MAY-2008	0.8826	0.9173	35.00	36.38	ug/L	4	20	0.0500	
Bromochloromethane	488192017001	12-MAY-2008	0.2847	0.2886	35.00	35.48	ug/L	1	30	0.0500	
1,1,1-Trichloroethane	488192017001	12-MAY-2008	0.5815	0.6292	35.00	37.88	ug/L	8	30	0.0500	
1,1-Dichloropropene	488192017001	12-MAY-2008	0.3941	0.3925	35.00	34.86	ug/L	0	30	0.0500	
Carbon Tetrachloride	488192017001	12-MAY-2008	0.3104	0.3533	35.00	39.84	ug/L	14	30	0.0500	
1,2-Dichloroethane	488192017001	12-MAY-2008	0.3838	0.4561	35.00	41.60	ug/L	19	30	0.0500	
Benzene	488192017001	12-MAY-2008	1.2277	1.1972	35.00	34.13	ug/L	-2	30	0.0500	
Trichloroethene	488192017001	12-MAY-2008	0.3241	0.3120	35.00	33.70	ug/L	-4	30	0.0500	
1,2-Dichloropropane	488192017001	12-MAY-2008	0.3778	0.3660	35.00	33.90	ug/L	-3	20	0.0500	
Bromodichloromethane	488192017001	12-MAY-2008	0.4221	0.4578	35.00	37.96	ug/L	8	30	0.0500	
Dibromomethane	488192017001	12-MAY-2008	0.2610	0.2596	35.00	34.82	ug/L	-1	30	0.0500	
4-Methyl-2-Pentanone	488192017001	12-MAY-2008	0.4312	0.4314	35.00	35.02	ug/L	0	30	0.0500	
Toluene	488192017001	12-MAY-2008	0.7661	0.6748	35.00	30.83	ug/L	-12	20	0.0500	
1,1,2-Trichloroethane	488192017001	12-MAY-2008	0.1816	0.1807	35.00	34.83	ug/L	0	30	0.0500	
2-Hexanone	488192017001	12-MAY-2008	0.3449	0.3867	35.00	39.25	ug/L	12	30	0.0500	
1,3-Dichloropropane	488192017001	12-MAY-2008	0.5930	0.6438	35.00	38.00	ug/L	9	30	0.0500	
Tetrachloroethene	488192017001	12-MAY-2008	0.3633	0.3438	35.00	33.12	ug/L	-5	30	0.0500	
Dibromochloromethane	488192017001	12-MAY-2008	0.4347	0.4512	35.00	36.33	ug/L	4	30	0.0500	
1,2-Dibromoethane	488192017001	12-MAY-2008	0.3597	0.3660	35.00	35.61	ug/L	2	30	0.0500	
Chlorobenzene	488192017001	12-MAY-2008	0.9836	0.9515	35.00	33.86	ug/L	-3	30	0.3000	
1,1,1,2-Tetrachloroethane	488192017001	12-MAY-2008	0.3461	0.3423	35.00	34.61	ug/L	-1	30	0.0500	
Ethylbenzene	488192017001	12-MAY-2008	1.5714	1.5275	35.00	34.02	ug/L	-3	20	0.0500	
m,p-Xylenes	488192017001	12-MAY-2008	0.6092	0.5554	70.00	63.82	ug/L	-9	30	0.0500	
o-Xylene	488192017001	12-MAY-2008	0.6113	0.5773	35.00	33.05	ug/L	-6	30	0.0500	
Styrene	488192017001	12-MAY-2008	1.0826	1.0157	35.00	32.84	ug/L	-6	30	0.0500	
Bromoform	488192017001	12-MAY-2008	0.3116	0.3502	35.00	39.33	ug/L	12	30	0.1000	
Isopropylbenzene	488192017001	12-MAY-2008	2.9669	2.8265	35.00	33.34	ug/L	-5	30	0.0500	
1,1,2,2-Tetrachloroethane	488192017001	12-MAY-2008	1.0679	1.1183	35.00	36.65	ug/L	5	30	0.3000	
1,2,3-Trichloropropane	488192017001	12-MAY-2008	0.2360	0.2790	35.00	41.37	ug/L	18	30	0.0500	
Propylbenzene	488192017001	12-MAY-2008	3.8558	3.6054	35.00	32.73	ug/L	-6	30	0.0500	
Bromobenzene	488192017001	12-MAY-2008	0.8654	0.8955	35.00	36.22	ug/L	3	30	0.0500	
1,3,5-Trimethylbenzene	488192017001	12-MAY-2008	2.3920	2.3513	35.00	34.40	ug/L	-2	30	0.0500	

Analyte	Cal	Caldate	Avg	RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
2-Chlorotoluene	488192017001	12-MAY-2008	2.4588	2.5607	35.00	36.45	ug/L	4	30	0.0500		
4-Chlorotoluene	488192017001	12-MAY-2008	2.3728	2.4125	35.00	35.58	ug/L	2	30	0.0500		
tert-Butylbenzene	488192017001	12-MAY-2008	2.0292	1.8173	35.00	31.34	ug/L	-10	30	0.0500		
1,2,4-Trimethylbenzene	488192017001	12-MAY-2008	2.3359	2.3640	35.00	35.42	ug/L	1	30	0.0500		
sec-Butylbenzene	488192017001	12-MAY-2008	3.1584	2.8350	35.00	31.42	ug/L	-10	30	0.0500		
para-Isopropyl Toluene	488192017001	12-MAY-2008	2.4018	2.1662	35.00	31.57	ug/L	-10	30	0.0500		
1,3-Dichlorobenzene	488192017001	12-MAY-2008	1.5628	1.5207	35.00	34.06	ug/L	-3	30	0.0500		
1,4-Dichlorobenzene	488192017001	12-MAY-2008	1.5846	1.5579	35.00	34.41	ug/L	-2	30	0.0500		
n-Butylbenzene	488192017001	12-MAY-2008	2.1695	2.1868	35.00	35.28	ug/L	1	30	0.0500		
1,2-Dichlorobenzene	488192017001	12-MAY-2008	1.5211	1.4877	35.00	34.23	ug/L	-2	30	0.0500		
1,2-Dibromo-3-Chloropropane	488192017001	12-MAY-2008	0.1649	0.1755	35.00	39.60	ug/L	13	30	0.0500		
1,2,4-Trichlorobenzene	488192017001	12-MAY-2008	0.8351	0.8314	35.00	34.84	ug/L	0	30	0.0500		
Hexachlorobutadiene	488192017001	12-MAY-2008	0.3557	0.2668	35.00	26.26	ug/L	-25	30	0.0500		
Naphthalene	488192017001	12-MAY-2008	1.6661	1.9221	35.00	40.38	ug/L	15	30	0.0500		
1,2,3-Trichlorobenzene	488192017001	12-MAY-2008	0.7741	0.7603	35.00	34.37	ug/L	-2	30	0.0500		
tert-Butyl Alcohol (TBA)	488192017001	12-MAY-2008	0.0394	0.0488	350.0	433.1	ug/L	24	30	0.0050		
Isopropyl Ether (DIPE)	488192017001	12-MAY-2008	2.2017	2.1260	35.00	33.80	ug/L	-3	30	0.0500		
Ethyl tert-Butyl Ether (ETBE)	488192017001	12-MAY-2008	1.6144	1.7080	35.00	37.03	ug/L	6	30	0.0500		
Methyl tert-Amyl Ether (TAME)	488192017001	12-MAY-2008	0.8613	0.8894	35.00	36.14	ug/L	3	30	0.0500		
Dibromofluoromethane	488216505001	29-MAY-2008	0.5950	0.6252	50.00	52.54	ug/L	5	30	0.0500		
1,2-Dichloroethane-d4	488216505001	29-MAY-2008	0.3872	0.3808	50.00	49.17	ug/L	-2	30	0.0500		
Toluene-d8	488216505001	29-MAY-2008	1.0894	1.0735	50.00	49.27	ug/L	-1	30	0.0500		
Bromofluorobenzene	488216505001	29-MAY-2008	1.1032	1.1665	50.00	52.87	ug/L	6	30	0.0500		

ISTD (ICAL iec23)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	703475	471287	-33.01	12.37	12.36	-0.01
1,4-Difluorobenzene	1044881	729031	-30.23	13.66	13.64	-0.02
Chlorobenzene-d5	935223	605885	-35.21	17.68	17.66	-0.02
1,4-Dichlorobenzene-d4	485271	296377	-38.93	20.19	20.19	0.00

ISTD (ICAL iet03)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	693612	471287	-32.05	12.36	12.36	0.01
1,4-Difluorobenzene	1017490	729031	-28.35	13.64	13.64	0.00
1,4-Dichlorobenzene-d4	399921	296377	-25.89	20.18	20.19	0.01

Analyst: MJD Date: 06/13/08 Reviewer: BO Date: 06/13/08

m=manual integration

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488235230006.1

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 203803 MSVOA Water
EPA 8260B

Inst : MSVOA09 Run Name : 30PPB IDF : 1.0
Seqnum : 488236701003.1 File : ifc03 Time : 12-JUN-2008 11:12
Caltype : WATER
Standards: S9221 (16670X), S9084 (16670X), S9036 (33330X), S9421 (2500X)

Analyte	Cal	Caldate	Avg	RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	488192017001	12-MAY-2008	0.6879	0.8181	30.00	30.39	ug/L	1	30	0.0500		
Chloromethane	488192017001	12-MAY-2008	0.9140	0.9434	30.00	30.97	ug/L	3	30	0.1000		
Vinyl Chloride	488192017001	12-MAY-2008	0.6837	0.6936	30.00	27.17	ug/L	-9	20	0.0500		
Bromomethane	488192017001	12-MAY-2008	0.3287	0.2757	30.00	24.14	ug/L	-20	30	0.0500	m	
Chloroethane	488192017001	12-MAY-2008	0.4495	0.4331	30.00	28.90	ug/L	-4	30	0.0500	m	
Trichlorofluoromethane	488192017001	12-MAY-2008	0.6893	0.7786	30.00	33.89	ug/L	13	30	0.0500		
Acetone	488192017001	12-MAY-2008	0.2137	0.2388	30.00	33.52	ug/L	12	30	0.0500		
1,1-Dichloroethene	488192017001	12-MAY-2008	0.4343	0.3606	30.00	24.91	ug/L	-17	20	0.0500		
Methylene Chloride	488192017001	12-MAY-2008	0.6329	0.6118	30.00	29.00	ug/L	-3	30	0.0500		
Carbon Disulfide	488192017001	12-MAY-2008	1.8973	1.6722	30.00	26.44	ug/L	-12	30	0.0500		
MTBE	488192017001	12-MAY-2008	1.2372	1.2861	30.00	31.19	ug/L	4	30	0.0500		
trans-1,2-Dichloroethene	488192017001	12-MAY-2008	0.5194	0.4704	30.00	27.17	ug/L	-9	30	0.0500		
1,1-Dichloroethane	488192017001	12-MAY-2008	0.9522	0.9804	30.00	30.89	ug/L	3	30	0.1000		
2-Butanone	488192017001	12-MAY-2008	0.3076	0.2917	30.00	28.44	ug/L	-5	30	0.0500		
2,2-Dichloropropane	488192017001	12-MAY-2008	0.5530	0.6494	30.00	35.23	ug/L	17	30	0.0500		
cis-1,2-Dichloroethene	488192017001	12-MAY-2008	0.5780	0.5081	30.00	26.38	ug/L	-12	30	0.0500		
Chloroform	488192017001	12-MAY-2008	0.8826	0.9296	30.00	31.60	ug/L	5	20	0.0500		
Bromochloromethane	488192017001	12-MAY-2008	0.2847	0.2766	30.00	29.14	ug/L	-3	30	0.0500		
1,1,1-Trichloroethane	488192017001	12-MAY-2008	0.5815	0.5922	30.00	30.56	ug/L	2	30	0.0500		
1,1-Dichloropropene	488192017001	12-MAY-2008	0.3941	0.3859	30.00	29.37	ug/L	-2	30	0.0500		
Carbon Tetrachloride	488192017001	12-MAY-2008	0.3104	0.3324	30.00	32.14	ug/L	7	30	0.0500		
1,2-Dichloroethane	488192017001	12-MAY-2008	0.3838	0.4949	30.00	38.69	ug/L	29	30	0.0500		
Benzene	488192017001	12-MAY-2008	1.2277	1.2204	30.00	29.82	ug/L	-1	30	0.0500		
Trichloroethene	488192017001	12-MAY-2008	0.3241	0.3038	30.00	28.12	ug/L	-6	30	0.0500		
1,2-Dichloropropane	488192017001	12-MAY-2008	0.3778	0.3762	30.00	29.87	ug/L	0	20	0.0500		
Bromodichloromethane	488192017001	12-MAY-2008	0.4221	0.4791	30.00	34.05	ug/L	14	30	0.0500		
Dibromomethane	488192017001	12-MAY-2008	0.2610	0.2753	30.00	31.65	ug/L	5	30	0.0500		
4-Methyl-2-Pentanone	488192017001	12-MAY-2008	0.4312	0.4013	30.00	27.92	ug/L	-7	30	0.0500		
Toluene	488192017001	12-MAY-2008	0.7661	0.6722	30.00	26.32	ug/L	-12	20	0.0500		
1,2-Trichloroethane	488192017001	12-MAY-2008	0.1816	0.1782	30.00	29.45	ug/L	-2	30	0.0500		
2-Hexanone	488192017001	12-MAY-2008	0.3449	0.3256	30.00	28.33	ug/L	-6	30	0.0500		
1,3-Dichloropropane	488192017001	12-MAY-2008	0.5930	0.5829	30.00	29.49	ug/L	-2	30	0.0500		
Tetrachloroethene	488192017001	12-MAY-2008	0.3633	0.2879	30.00	23.77	ug/L	-21	30	0.0500		
Dibromochloromethane	488192017001	12-MAY-2008	0.4347	0.4307	30.00	29.72	ug/L	-1	30	0.0500		
1,2-Dibromoethane	488192017001	12-MAY-2008	0.3597	0.3428	30.00	28.59	ug/L	-5	30	0.0500		
Chlorobenzene	488192017001	12-MAY-2008	0.9836	0.9447	30.00	28.82	ug/L	-4	30	0.3000		
1,1,1,2-Tetrachloroethane	488192017001	12-MAY-2008	0.3461	0.3279	30.00	28.42	ug/L	-5	30	0.0500		
Ethylbenzene	488192017001	12-MAY-2008	1.5714	1.4537	30.00	27.75	ug/L	-7	20	0.0500		
m,p-Xylenes	488192017001	12-MAY-2008	0.6092	0.5281	60.00	52.01	ug/L	-13	30	0.0500		
o-Xylene	488192017001	12-MAY-2008	0.6113	0.5716	30.00	28.05	ug/L	-6	30	0.0500		
Styrene	488192017001	12-MAY-2008	1.0826	1.0075	30.00	27.92	ug/L	-7	30	0.0500		
Bromoform	488192017001	12-MAY-2008	0.3116	0.3142	30.00	30.25	ug/L	1	30	0.1000		
Isopropylbenzene	488192017001	12-MAY-2008	2.9669	2.5517	30.00	25.80	ug/L	-14	30	0.0500		
1,1,2,2-Tetrachloroethane	488192017001	12-MAY-2008	1.0679	1.0810	30.00	30.37	ug/L	1	30	0.3000		
1,2,3-Trichloropropane	488192017001	12-MAY-2008	0.2360	0.2612	30.00	33.20	ug/L	11	30	0.0500		
Propylbenzene	488192017001	12-MAY-2008	3.8558	3.3782	30.00	26.28	ug/L	-12	30	0.0500		
Bromobenzene	488192017001	12-MAY-2008	0.8654	0.8589	30.00	29.78	ug/L	-1	30	0.0500		
1,3,5-Trimethylbenzene	488192017001	12-MAY-2008	2.3920	2.1094	30.00	26.46	ug/L	-12	30	0.0500		

Analyte	Cal	Cal date	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
2-Chlorotoluene	488192017001	12-MAY-2008	2.4588	2.4040	30.00	29.33	ug/L	-2	30	0.0500	
4-Chlorotoluene	488192017001	12-MAY-2008	2.3728	2.3898	30.00	30.21	ug/L	1	30	0.0500	
tert-Butylbenzene	488192017001	12-MAY-2008	2.0292	1.6349	30.00	24.17	ug/L	-19	30	0.0500	
1,2,4-Trimethylbenzene	488192017001	12-MAY-2008	2.3359	2.2576	30.00	28.99	ug/L	-3	30	0.0500	
sec-Butylbenzene	488192017001	12-MAY-2008	3.1584	2.4016	30.00	22.81	ug/L	-24	30	0.0500	
para-Isopropyl Toluene	488192017001	12-MAY-2008	2.4018	1.9931	30.00	24.89	ug/L	-17	30	0.0500	
1,3-Dichlorobenzene	488192017001	12-MAY-2008	1.5628	1.4821	30.00	28.45	ug/L	-5	30	0.0500	
1,4-Dichlorobenzene	488192017001	12-MAY-2008	1.5846	1.5853	30.00	30.01	ug/L	0	30	0.0500	
n-Butylbenzene	488192017001	12-MAY-2008	2.1695	1.9366	30.00	26.78	ug/L	-11	30	0.0500	
1,2-Dichlorobenzene	488192017001	12-MAY-2008	1.5211	1.4339	30.00	28.28	ug/L	-6	30	0.0500	
1,2-Dibromo-3-Chloropropane	488192017001	12-MAY-2008	0.1649	0.1769	30.00	34.16	ug/L	14	30	0.0500	
1,2,4-Trichlorobenzene	488192017001	12-MAY-2008	0.8351	0.7914	30.00	28.43	ug/L	-5	30	0.0500	
Hexachlorobutadiene	488192017001	12-MAY-2008	0.3557	0.2682	30.00	22.62	ug/L	-25	30	0.0500	
Naphthalene	488192017001	12-MAY-2008	1.6661	1.6695	30.00	30.06	ug/L	0	30	0.0500	
1,2,3-Trichlorobenzene	488192017001	12-MAY-2008	0.7741	0.7482	30.00	28.99	ug/L	-3	30	0.0500	
tert-Butyl Alcohol (TBA)	488192017001	12-MAY-2008	0.0394	0.0403	300.0	306.4	ug/L	2	30	0.0050	
Isopropyl Ether (DIPE)	488192017001	12-MAY-2008	2.2017	2.0562	30.00	28.02	ug/L	-7	30	0.0500	
Ethyl tert-Butyl Ether (ETBE)	488192017001	12-MAY-2008	1.6144	1.6615	30.00	30.88	ug/L	3	30	0.0500	
Methyl tert-Amyl Ether (TAME)	488192017001	12-MAY-2008	0.8613	0.8943	30.00	31.15	ug/L	4	30	0.0500	
Dibromofluoromethane	488216505001	29-MAY-2008	0.5950	0.6242	50.00	52.46	ug/L	5	30	0.0500	
1,2-Dichloroethane-d4	488216505001	29-MAY-2008	0.3872	0.4542	50.00	58.64	ug/L	17	30	0.0500	
Toluene-d8	488216505001	29-MAY-2008	1.0394	1.1271	50.00	51.73	ug/L	3	30	0.0500	
Bromofluorobenzene	488216505001	29-MAY-2008	1.1032	1.1450	50.00	51.89	ug/L	4	30	0.0500	

ISTD (ICAL iec23)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	703475	453947	-35.47	12.37	12.37	0.00
1,4-Difluorobenzene	1044881	686771	-34.27	13.66	13.65	-0.01
Chlorobenzene-d5	935223	606867	-35.11	17.68	17.67	-0.01
1,4-Dichlorobenzene-d4	485271	289779	-40.29	20.19	20.19	0.00

ISTD (ICAL iet03)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	693612	453947	-34.55	12.36	12.37	0.02
1,4-Difluorobenzene	1017490	686771	-32.50	13.64	13.65	0.01
1,4-Dichlorobenzene-d4	399921	289779	-27.54	20.18	20.19	0.01

Analyst: MJD

Date: 06/13/08

Reviewer: BO

Date: 06/13/08

m=manual integration

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488236701003.1

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 488233770

Date : 06/10/08
 Sequence : MSVOA09 ifa

Reference : iec23
 Analyzed : 05/13/08 00:33

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
	ICAL STD	703475	12.37	1044881	13.66	935223	17.68	485271	20.19	
	LOWER LIMIT	351738	11.87	522441	13.16	467612	17.18	242636	19.69	
	UPPER LIMIT	1406950	12.87	2089762	14.16	1870446	18.18	970542	20.69	
005	CCV	35PPB	482438	12.36	777785	13.64	683399	17.67	309459	20.18
006	BS	QC445787	494692	12.36	757051	13.65	652480	17.67	308681	20.18
007	BSD	QC445788	489125	12.36	776692	13.64	675782	17.67	313926	20.18
009	CCV	35PPB	468271	12.36	764520	13.64	657821	17.67	313520	20.18
011	BLANK	QC445789	482081	12.36	773347	13.64	656560	17.67	312219	20.19
012	SAMPLE	203803-001	469697	12.37	741527	13.65	651136	17.67	303039	20.19
013	SAMPLE	203769-007	461277	12.37	736149	13.65	648134	17.67	299634	20.19
014	SAMPLE	203769-008	464031	12.37	740930	13.65	634752	17.67	299356	20.19
015	MSS	203769-009	433688	12.36	697307	13.64	615799	17.67	292174	20.18
016	SAMPLE	203769-010	443729	12.37	684953	13.65	602824	17.67	286406	20.19
017	SAMPLE	203769-011	438969	12.37	702082	13.65	598245	17.67	275607	20.19
018	SAMPLE	203772-004	429380	12.37	685470	13.65	626652	17.67	292202	20.19
019	SAMPLE	203772-005	444377	12.37	742607	13.65	636092	17.68	285884	20.19
020	SAMPLE	203772-006	449398	12.37	730171	13.65	630432	17.67	289960	20.19
021	SAMPLE	203772-007	447127	12.37	746912	13.65	628410	17.67	285247	20.19
022	SAMPLE	203801-001	434920	12.37	684154	13.65	600255	17.67	281238	20.19
023	SAMPLE	203801-002	447842	12.36	729745	13.65	611654	17.67	283809	20.18
024	SAMPLE	203803-002	448213	12.36	719848	13.64	612784	17.67	277608	20.18
025	SAMPLE	203810-003	429605	12.37	719559	13.65	595552	17.66	275604	20.19
026	SAMPLE	203774-009	438182	12.36	703478	13.65	603457	17.67	279637	20.18
027	MS	QC445860	435169	12.37	733822	13.65	642263	17.67	295644	20.19
028	MSD	QC445861	449235	12.37	768218	13.65	631118	17.67	305366	20.19

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 488233770

Date : 06/10/08
 Sequence : MSVOA09 ifa

Reference : iet03
 Analyzed : 05/29/08 09:12

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	DCBZ	14D4	RT
	ICAL STD		693612	12.36	1017490	13.64	399921		20.18
	LOWER LIMIT		346806	11.86	508745	13.14	199961		19.68
	UPPER LIMIT		1387224	12.86	2034980	14.14	799842		20.68
005	CCV	35PPB	482438	12.36	777785	13.64	309459		20.18
006	BS	QC445787	494692	12.36	757051	13.65	308681		20.18
007	BSD	QC445788	489125	12.36	776692	13.64	313926		20.18
009	CCV	35PPB	468271	12.36	764520	13.64	313520		20.18
011	BLANK	QC445789	482081	12.36	773347	13.64	312219		20.19
012	SAMPLE	203803-001	469697	12.37	741527	13.65	303039		20.19
013	SAMPLE	203769-007	461277	12.37	736149	13.65	299634		20.19
014	SAMPLE	203769-008	464031	12.37	740930	13.65	299356		20.19
015	MSS	203769-009	433688	12.36	697307	13.64	292174		20.18
016	SAMPLE	203769-010	443729	12.37	684953	13.65	286406		20.19
017	SAMPLE	203769-011	438969	12.37	702082	13.65	275607		20.19
018	SAMPLE	203772-004	429380	12.37	685470	13.65	292202		20.19
019	SAMPLE	203772-005	444377	12.37	742607	13.65	285884		20.19
020	SAMPLE	203772-006	449398	12.37	730171	13.65	289960		20.19
021	SAMPLE	203772-007	447127	12.37	746912	13.65	285247		20.19
022	SAMPLE	203801-001	434920	12.37	684154	13.65	281238		20.19
023	SAMPLE	203801-002	447842	12.36	729745	13.65	283809		20.18
024	SAMPLE	203803-002	448213	12.36	719848	13.64	277608		20.18
025	SAMPLE	203810-003	429605	12.37	719559	13.65	275604		20.19
026	SAMPLE	203774-009	438182	12.36	703478	13.65	279637		20.18
027	MS	QC445860	435169	12.37	733822	13.65	295644		20.19
028	MSD	QC445861	449235	12.37	768218	13.65	305366		20.19

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 488235230

Date : 06/11/08
 Sequence : MSVOA09 ifb

Reference : iec23
 Analyzed : 05/13/08 00:33

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
	ICAL STD	703475	12.37	1044881	13.66	935223	17.68	485271	20.19	
	LOWER LIMIT	351738	11.87	522441	13.16	467612	17.18	242636	19.69	
	UPPER LIMIT	1406950	12.87	2089762	14.16	1870446	18.18	970542	20.69	
006	CCV	35PPB	471287	12.36	729031	13.64	605885	17.66	296377	20.19
007	BS	QC445987	482723	12.36	723161	13.64	630418	17.67	290309	20.18
008	BSD	QC445988	488176	12.36	746685	13.65	636610	17.67	282728	20.19
010	BLANK	QC445989	495338	12.36	753091	13.64	642959	17.67	303940	20.18
011	SAMPLE	203858-001	468729	12.36	750092	13.65	625160	17.67	287441	20.19
012	SAMPLE	203858-002	480811	12.37	758100	13.65	618643	17.67	290099	20.19
013	SAMPLE	203774-014	467420	12.37	723915	13.65	618753	17.68	292720	20.19
014	SAMPLE	203858-003	462515	12.37	716016	13.65	620854	17.67	281978	20.19
015	SAMPLE	203858-004	448303	12.36	697435	13.64	601430	17.67	278044	20.19
016	SAMPLE	203858-005	463183	12.37	701859	13.65	587981	17.67	269877	20.19
017	SAMPLE	203858-006	451679	12.37	722520	13.65	612868	17.67	270049	20.19
018	SAMPLE	203858-007	456878	12.37	727380	13.65	606701	17.67	273013	20.19
019	SAMPLE	203858-008	459745	12.37	692970	13.65	580209	17.67	271896	20.19
020	SAMPLE	203858-009	466304	12.38	698813	13.65	583595	17.67	272002	20.20
021	SAMPLE	203858-010	447495	12.37	724493	13.65	589071	17.67	263079	20.19
022	SAMPLE	203803-003	446031	12.37	721596	13.65	597122	17.68	274541	20.19
023	SAMPLE	203803-004	459876	12.37	692314	13.65	558681	17.68	276237	20.19
024	MSS	203803-005	455486	12.37	704302	13.65	582930	17.67	259059	20.19
025	MS	QC446068	464690	12.37	723500	13.65	618491	17.68	287281	20.19
026	MSD	QC446069	474974	12.37	774238	13.65	614717	17.67	298262	20.19

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 488235230

Date : 06/11/08
 Sequence : MSVOA09 ifb

Reference : iet03
 Analyzed : 05/29/08 09:12

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	DCBZ14D4	RT
		ICAL STD	693612	12.36	1017490	13.64	399921	20.18
		LOWER LIMIT	346806	11.86	508745	13.14	199961	19.68
		UPPER LIMIT	1387224	12.86	2034980	14.14	799842	20.68
006	CCV	35PPB	471287	12.36	729031	13.64	296377	20.19
007	BS	QC445987	482723	12.36	723161	13.64	290309	20.18
008	BSD	QC445988	488176	12.36	746685	13.65	282728	20.19
010	BLANK	QC445989	495338	12.36	753091	13.64	303940	20.18
011	SAMPLE	203858-001	468729	12.36	750092	13.65	287441	20.19
012	SAMPLE	203858-002	480811	12.37	758100	13.65	290099	20.19
013	SAMPLE	203774-014	467420	12.37	723915	13.65	292720	20.19
014	SAMPLE	203858-003	462515	12.37	716016	13.65	281978	20.19
015	SAMPLE	203858-004	448303	12.36	697435	13.64	278044	20.19
016	SAMPLE	203858-005	463183	12.37	701859	13.65	269877	20.19
017	SAMPLE	203858-006	451679	12.37	722520	13.65	270049	20.19
018	SAMPLE	203858-007	456878	12.37	727380	13.65	273013	20.19
019	SAMPLE	203858-008	459745	12.37	692970	13.65	271896	20.19
020	SAMPLE	203858-009	466304	12.38	698813	13.65	272002	20.20
021	SAMPLE	203858-010	447495	12.37	724493	13.65	263079	20.19
022	SAMPLE	203803-003	446031	12.37	721596	13.65	274541	20.19
023	SAMPLE	203803-004	459876	12.37	692314	13.65	276237	20.19
024	MSS	203803-005	455486	12.37	704302	13.65	259059	20.19
025	MS	QC446068	464690	12.37	723500	13.65	287281	20.19
026	MSD	QC446069	474974	12.37	774238	13.65	298262	20.19

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 488236701

Date : 06/12/08
 Sequence : MSVOA09 ifc

Reference : iec23
 Analyzed : 05/13/08 00:33

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
	ICAL STD	703475	12.37	1044881	13.66	935223	17.68	485271	20.19	
	LOWER LIMIT	351738	11.87	522441	13.16	467612	17.18	242636	19.69	
	UPPER LIMIT	1406950	12.87	2089762	14.16	1870446	18.18	970542	20.69	
003	CCV	30PPB	453947	12.37	686771	13.65	606867	17.67	289779	20.19
004	BS	QC446200	491950	12.36	742826	13.64	607951	17.67	306635	20.18
005	BSD	QC446201	480158	12.36	718396	13.65	630672	17.67	300111	20.19
007	BLANK	QC446199	473746	12.37	714548	13.65	625313	17.67	288290	20.19
008	MSD	QC446069	471565	12.37	712580	13.65	617066	17.67	304828	20.19
009	SAMPLE	203868-001	486634	12.37	755105	13.65	612890	17.67	292630	20.19
010	SAMPLE	203857-004	482268	12.37	705855	13.65	615508	17.67	274086	20.19
011	SAMPLE	203857-005	485029	12.37	739817	13.65	602140	17.67	277972	20.19
012	SAMPLE	203857-006	475260	12.37	729348	13.65	583319	17.67	271022	20.19
013	SAMPLE	203857-007	461406	12.37	722770	13.65	607904	17.67	269647	20.19
014	SAMPLE	203857-008	488250	12.37	736644	13.65	577164	17.68	274417	20.19
015	SAMPLE	203857-009	467238	12.37	713970	13.65	603803	17.67	260268	20.19
016	SAMPLE	203857-010	472406	12.37	710184	13.65	577916	17.67	261985	20.19
017	SAMPLE	203901-006	461501	12.38	700370	13.65	588462	17.67	272846	20.19
018	SAMPLE	203901-007	464445	12.37	710797	13.65	596707	17.67	269860	20.19
019	SAMPLE	203901-008	476597	12.37	699870	13.65	560514	17.68	272434	20.19
020	SAMPLE	203901-009	459393	12.37	734577	13.65	597406	17.67	267798	20.18
021	SAMPLE	203901-010	463721	12.37	706352	13.65	558648	17.67	268054	20.19
022	SAMPLE	203881-001	471493	12.37	695558	13.65	584778	17.67	268971	20.19

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 488236701

Date : 06/12/08
 Sequence : MSVOA09 ifc

Reference : iet03
 Analyzed : 05/29/08 09:12

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	DCBZ	14D4	RT
	ICAL STD		693612	12.36	1017490	13.64	399921		20.18
	LOWER LIMIT		346806	11.86	508745	13.14	199961		19.68
	UPPER LIMIT		1387224	12.86	2034980	14.14	799842		20.68
003	CCV	30PPB	453947	12.37	686771	13.65	289779		20.19
004	BS	QC446200	491950	12.36	742826	13.64	306635		20.18
005	BSD	QC446201	480158	12.36	718396	13.65	300111		20.19
007	BLANK	QC446199	473746	12.37	714548	13.65	288290		20.19
008	MSD	QC446069	471565	12.37	712580	13.65	304828		20.19
009	SAMPLE	203868-001	486634	12.37	755105	13.65	292630		20.19
010	SAMPLE	203857-004	482268	12.37	705855	13.65	274086		20.19
011	SAMPLE	203857-005	485029	12.37	739817	13.65	277972		20.19
012	SAMPLE	203857-006	475260	12.37	729348	13.65	271022		20.19
013	SAMPLE	203857-007	461406	12.37	722770	13.65	269647		20.19
014	SAMPLE	203857-008	488250	12.37	736644	13.65	274417		20.19
015	SAMPLE	203857-009	467238	12.37	713970	13.65	260268		20.19
016	SAMPLE	203857-010	472406	12.37	710184	13.65	261985		20.19
017	SAMPLE	203901-006	461501	12.38	700370	13.65	272846		20.19
018	SAMPLE	203901-007	464445	12.37	710797	13.65	269860		20.19
019	SAMPLE	203901-008	476597	12.37	699870	13.65	272434		20.19
020	SAMPLE	203901-009	459393	12.37	734577	13.65	267798		20.18
021	SAMPLE	203901-010	463721	12.37	706352	13.65	268054		20.19
022	SAMPLE	203881-001	471493	12.37	695558	13.65	268971		20.19

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 488192017

Instrument : MSVOA09
 Method : EPA 8260B

Begun : 05/12/08 08:17
 SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	iec01	X	IB			05/12/08 08:17	1.0	1
002	iec02	X	BFB			05/12/08 10:15	1.0	2
003	iec03	X	IB			05/12/08 11:15	1.0	1
004	iec04	X	35PPB			05/12/08 11:50	1.0	3 4 5 1
005	iec05	X	QC441197	Water	137988	05/12/08 12:27	1.0	6 7 8 1
006	iec06	X	BFB			05/12/08 13:40	1.0	2
007	iec07	X	QC441197	Water	137988	05/12/08 14:08	1.0	6 7 8 1
008	iec08	X	QC441198	Water	137988	05/12/08 14:45	1.0	6 7 8 1
009	iec09	X	BFB			05/12/08 16:09	1.0	2
010	iec10	X	QC441197	Water	137988	05/12/08 16:37	1.0	6 7 8 1
011	iec11	X	QC441198	Water	137988	05/12/08 17:13	1.0	6 7 8 1
012	iec12	TUN	BFB			05/12/08 18:11	1.0	2
013	iec13	X	LP 0.5-1			05/12/08 18:33	1.0	1
014	iec14	X	IB			05/12/08 19:09	1.0	1
015	iec15	X	IB			05/12/08 19:45	1.0	1
16	iec16	IB	CALIB			05/12/08 20:21	1.0	1
017	iec17	ICAL	0.25-0.5PPB			05/12/08 20:56	1.0	9 10 11 1
018	iec18	ICAL	0.5-1PPB			05/12/08 21:32	1.0	9 10 11 1
019	iec19	ICAL	2PPB			05/12/08 22:09	1.0	9 10 11 1
020	iec20	ICAL	5PPB			05/12/08 22:45	1.0	9 10 11 1
021	iec21	ICAL	10PPB			05/12/08 23:20	1.0	9 10 11 1
022	iec22	ICAL	20PPB			05/12/08 23:57	1.0	3 4 5 1
023	iec23	ICAL	50PPB			05/13/08 00:33	1.0	3 4 5 1
024	iec24	ICAL	75PPB			05/13/08 01:08	1.0	3 4 5 1
025	iec25	ICAL	100PPB			05/13/08 01:44	1.0	3 4 5 1
026	iec26	X	ICV			05/13/08 02:20	1.0	8 1
027	iec27	ICV	25PPB			05/13/08 02:56	1.0	6 7 1
028	iec28	X	IB			05/13/08 03:32	1.0	1
029	iec29	X	IB			05/13/08 04:07	1.0	1
030	iec30	X	IB			05/13/08 04:44	1.0	1

MJM 05/13/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 001 through 027.

Analyst: MJM Date: 05/13/08 Reviewer: LW Date: 05/14/08

Standards used: 1=S9058 2=S7916 3=S6974 4=S9032 5=S9035 6=S8985 7=S9023 8=S9163 9=S8975 10=S8980 11=S8692

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CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 488193450

Instrument : MSVOA09
 Method : EPA 8260B

Begun : 05/13/08 08:10
 SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	ied01	X	IB			05/13/08 08:10	1.0	1
002	ied02	TUN	BFB			05/13/08 09:24	1.0	2
003	ied03	ICV	GAS 25PPB			05/13/08 12:08	1.0	3 1
004	ied04	CCV	35PPB			05/13/08 13:17	1.0	4 5 6 1
005	ied05	BS	QC441445	Water	138045	05/13/08 13:53	1.0	3 7 8 1
006	ied06	BSD	QC441446	Water	138045	05/13/08 14:29	1.0	3 7 8 1
007	ied07	TUN	BFB			05/13/08 15:44	1.0	2
008	ied08	CCV	25PPB			05/13/08 16:02	1.0	3 7 8 1
009	ied09	X	IB			05/13/08 16:36	1.0	1
010	ied10	BLANK	QC441447	Water	138045	05/13/08 17:11	1.0	1
011	ied11	SAMPLE	203207-003	Water	138045	05/13/08 17:45	1.0	1
012	ied12	SAMPLE	203207-004	Water	138045	05/13/08 18:19	1.0	1
013	ied13	SAMPLE	203207-005	Water	138045	05/13/08 18:56	1.0	1
014	ied14	SAMPLE	203207-006	Water	138045	05/13/08 19:30	1.0	1
015	ied15	SAMPLE	203207-007	Water	138045	05/13/08 20:05	1.0	1
016	ied16	SAMPLE	203207-008	Water	138045	05/13/08 20:39	1.0	1
017	ied17	SAMPLE	203207-010	Water	138045	05/13/08 21:13	1.0	1
018	ied18	SAMPLE	203218-001	Water	138045	05/13/08 21:48	1.0	1
019	ied19	SAMPLE	203218-002	Water	138045	05/13/08 22:23	1.0	1
020	ied20	SAMPLE	203218-003	Water	138045	05/13/08 22:57	1.0	1
021	ied21	SAMPLE	203218-004	Water	138045	05/13/08 23:32	1.0	1
022	ied22	SAMPLE	203218-005	Water	138045	05/14/08 00:06	1.0	1
023	ied23	SAMPLE	203218-006	Water	138045	05/14/08 00:41	1.0	1
024	ied24	SAMPLE	203218-007	Water	138045	05/14/08 01:15	1.0	1
025	ied25	SAMPLE	203218-008	Water	138045	05/14/08 01:50	1.0	1
026	ied26	SAMPLE	203218-009	Water	138045	05/14/08 02:25	1.0	1
027	ied27	SAMPLE	203207-009	Water	138045	05/14/08 02:59	2.0	1
028	ied28	X	IB			05/14/08 03:34	1.0	1
029	ied29	X	IB			05/14/08 04:08	1.0	1
030	ied30	X	IB			05/14/08 04:43	1.0	1

MJM 05/13/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 001 through 003.

MJM 05/14/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 004 through 030.

Analyst: MJM

Date: 05/14/08

Reviewer: LW

Date: 05/14/08

Standards used: 1=S9058 2=S7916 3=S9163 4=S8974 5=S9032 6=S9035 7=S9023 8=S8985

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CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 488216505

Instrument : MSVOA09
 Method : EPA 8260B

Begun : 05/29/08 08:25
 SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	iet01	X	IB			05/29/08 08:25	1.0	1
002	iet02	TUN	BFB			05/29/08 08:53	1.0	2
003	iet03	ICAL	SURR @ 50PPB			05/29/08 09:12	1.0	3 4 1
004	iet04	X	QC443977	Water	138662	05/29/08 10:11	1.0	5 6 7 1
005	iet05	X	QC443978	Water	138662	05/29/08 10:45	1.0	5 6 7 1
006	iet06	X	BFB			05/29/08 11:39	1.0	2
007	iet07	X	35PPB			05/29/08 11:58	1.0	8 3 4 1
008	iet08	X	QC443977	Water	138662	05/29/08 13:07	1.0	5 6 7 1
009	iet09	X	QC443978	Water	138662	05/29/08 13:42	1.0	5 6 7 1
010	iet10	TUN	BFB			05/29/08 14:38	1.0	2
011	iet11	CCV	35PPB			05/29/08 14:56	1.0	8 3 4 1
012	iet12	LCS	QC443977	Water	138662	05/29/08 15:34	1.0	5 6 7 1
013	iet13	X	IB			05/29/08 16:08	1.0	1
014	iet14	BLANK	QC443979	Water	138662	05/29/08 16:43	1.0	1
015	iet15	MSS	203598-001	Water	138662	05/29/08 17:20	1.0	1
016	iet16	SAMPLE	203509-003	TCLP Leachate	138662	05/29/08 17:55	8.333	1 pH > 2
017	iet17	SAMPLE	203509-002	TCLP Leachate	138662	05/29/08 18:29	25.0	1 pH > 2, 1:ISOPROH=1200
018	iet18	X	IB			05/29/08 19:04	1.0	1
019	iet19	SAMPLE	203552-008	Water	138662	05/29/08 19:38	1.0	1 1:TBA=2200
020	iet20	SAMPLE	203552-009	Water	138662	05/29/08 20:15	1.0	1 1:M4THF=100
021	iet21	SAMPLE	203598-002	Water	138662	05/29/08 20:49	1.0	1
022	iet22	SAMPLE	203509-003	TCLP Leachate	138662	05/29/08 21:24	2.0	1 pH > 2, 4:DCPA12=6000
023	iet23	SAMPLE	203598-003	Water	138662	05/29/08 21:58	1.0	1
024	iet24	SAMPLE	203598-004	Water	138662	05/29/08 22:33	1.0	1
025	iet25	SAMPLE	203598-005	Water	138662	05/29/08 23:07	1.0	1
026	iet26	SAMPLE	203598-006	Water	138662	05/29/08 23:42	1.0	1
027	iet27	SAMPLE	203598-007	Water	138662	05/30/08 00:16	1.0	1
028	iet28	SAMPLE	203598-008	Water	138662	05/30/08 00:51	1.0	1
029	iet29	MS	QC444109	Water	138662	05/30/08 01:25	1.0	5 6 7 1
030	iet30	MSD	QC444110	Water	138662	05/30/08 02:00	1.0	5 6 7 1
031	iet31	X	IB			05/30/08 02:34	1.0	1
032	iet32	X	IB			05/30/08 03:09	1.0	1
3	iet33	X	IB			05/30/08 03:43	1.0	1

TEW 05/30/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 33.

Analyst: TEW Date: 05/30/08 Reviewer: ACM Date: 05/30/08

Standards used: 1=S9317 2=S7916 3=S9084 4=S9035 5=S9348 6=S9023 7=S9290 8=S9221

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 488233770

Instrument : MSVOA09
 Method : EPA 8260B

Begun : 06/10/08 08:10
 SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	ifa01	X	IB			06/10/08 08:10	1.0	1	
002	ifa02	X	BFB			06/10/08 09:35	1.0	2	
003	ifa03	X	35PPB			06/10/08 10:20	1.0	3 4 5 1	1:VA=79
004	ifa04	TUN	BFB			06/10/08 11:08	1.0	2	
005	ifa05	CCV	35PPB			06/10/08 11:33	1.0	3 4 5 1	
006	ifa06	BS	QC445787	Water	139094	06/10/08 12:08	1.0	6 7 8 1	
007	ifa07	BSD	QC445788	Water	139094	06/10/08 12:43	1.0	6 7 8 1	
008	ifa08	TUN	BFB			06/10/08 13:13	1.0	2	
009	ifa09	CCV	35PPB			06/10/08 13:32	1.0	3 4 5 1	
010	ifa10	X	IB			06/10/08 14:10	1.0	1	
011	ifa11	BLANK	QC445789	Water	139094	06/10/08 14:45	1.0	1	
012	ifa12	SAMPLE	203803-001	Water	139094	06/10/08 15:20	1.0	1	
013	ifa13	SAMPLE	203769-007	Water	139094	06/10/08 15:55	1.0	1	
014	ifa14	SAMPLE	203769-008	Water	139094	06/10/08 16:29	1.0	1	
015	ifa15	MSS	203769-009	Water	139094	06/10/08 17:04	1.0	1	
016	ifa16	SAMPLE	203769-010	Water	139094	06/10/08 17:38	1.0	1	
017	ifa17	SAMPLE	203769-011	Water	139094	06/10/08 18:12	1.0	1	
018	ifa18	SAMPLE	203772-004	Water	139094	06/10/08 18:46	1.0	1	
019	ifa19	SAMPLE	203772-005	Water	139094	06/10/08 19:20	1.0	1	
020	ifa20	SAMPLE	203772-006	Water	139094	06/10/08 19:54	1.0	1	
021	ifa21	SAMPLE	203772-007	Water	139094	06/10/08 20:28	1.0	1	
022	ifa22	SAMPLE	203801-001	Water	139094	06/10/08 21:02	1.0	1	
023	ifa23	SAMPLE	203801-002	Water	139094	06/10/08 21:36	1.0	1	
024	ifa24	SAMPLE	203803-002	Water	139094	06/10/08 22:10	1.0	1	
025	ifa25	SAMPLE	203810-003	Water	139094	06/10/08 22:45	2.500	1	
026	ifa26	SAMPLE	203774-009	Water	139094	06/10/08 23:19	4.0	1	
027	ifa27	MS	QC445860	Water	139094	06/10/08 23:53	1.0	6 7 8 1	
028	ifa28	MSD	QC445861	Water	139094	06/11/08 00:27	1.0	6 7 8 1	
029	ifa29	X	IB			06/11/08 01:02	1.0	1	
030	ifa30	X	IB			06/11/08 01:36	1.0	1	
031	ifa31	X	IB			06/11/08 02:10	1.0	1	

MJM 06/10/08 : Tune adjusted ifa02, ifa04.

MJM 06/11/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 001 through 028.

Analyst: MJM

Date: 06/11/08

Reviewer: ACM

Date: 06/11/08

Standards used: 1=S9421 2=S7916 3=S9221 4=S9084 5=S9035 6=S9446 7=S9456 8=S9290

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CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 488235230

Instrument : MSVOA09 Begun : 06/11/08 08:30
 Method : EPA 8260B SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds	Used
001	ifb01	X	IB			06/11/08 08:30	1.0	1	
002	ifb02	X	BFB			06/11/08 09:03	1.0	2	
003	ifb03	X	35PPB			06/11/08 09:22	1.0	3 4 5 1	
004	ifb04	X	QC445987	Water	139134	06/11/08 10:07	1.0	6 7 8 1	
005	ifb05	TUN	BFB			06/11/08 11:00	1.0	2	
006	ifb06	CCV	35PPB			06/11/08 11:19	1.0	3 4 5 1	
007	ifb07	BS	QC445987	Water	139134	06/11/08 11:54	1.0	6 7 8 1	
008	ifb08	BSD	QC445988	Water	139134	06/11/08 12:28	1.0	6 7 8 1	
009	ifb09	X	IB			06/11/08 13:02	1.0	1	
010	ifb10	BLANK	QC445989	Water	139134	06/11/08 13:36	1.0	1	
011	ifb11	SAMPLE	203858-001	Water	139134	06/11/08 14:17	1.0	1	
012	ifb12	SAMPLE	203858-002	Water	139134	06/11/08 14:51	1.0	1	
013	ifb13	SAMPLE	203774-014	Water	139134	06/11/08 15:29	1.0	1	
014	ifb14	SAMPLE	203858-003	Water	139134	06/11/08 16:04	1.0	1	
015	ifb15	SAMPLE	203858-004	Water	139134	06/11/08 16:38	1.0	1	
016	ifb16	SAMPLE	203858-005	Water	139134	06/11/08 17:16	1.0	1	
017	ifb17	SAMPLE	203858-006	Water	139134	06/11/08 17:52	1.0	1	
018	ifb18	SAMPLE	203858-007	Water	139134	06/11/08 18:26	1.0	1	
019	ifb19	SAMPLE	203858-008	Water	139134	06/11/08 19:01	1.0	1	
020	ifb20	SAMPLE	203858-009	Water	139134	06/11/08 19:36	1.0	1	
021	ifb21	SAMPLE	203858-010	Water	139134	06/11/08 20:10	1.0	1	
022	ifb22	SAMPLE	203803-003	Water	139134	06/11/08 20:44	1.0	1	
023	ifb23	SAMPLE	203803-004	Water	139134	06/11/08 21:19	1.0	1	
024	ifb24	MSS	203803-005	Water	139134	06/11/08 21:53	1.0	1	
025	ifb25	MS	QC446068	Water	139134	06/11/08 22:28	1.0	6 7 8 1	
026	ifb26	MSD	QC446069	Water	139134	06/11/08 23:03	1.0	6 7 8 1	
027	ifb27	X	IB			06/11/08 23:38	1.0	1	
028	ifb28	X	IB			06/12/08 00:12	1.0	1	
029	ifb29	X	IB			06/12/08 00:47	1.0	1	

MJM 06/11/08 : Tune adjusted ifb02, ifb05.

D 06/12/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 11 through 26.

Analyst: MJD Date: 06/12/08 Reviewer: ACM Date: 06/12/08

Standards used: 1=S9421 2=S9454 3=S9221 4=S9084 5=S9036 6=S9446 7=S9456 8=S9290

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CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 488236701

Instrument : MSVOA09
Method : EPA 8260BBegun : 06/12/08 09:01
SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	ifc01	X	IB			06/12/08 09:01	1.0	1
002	ifc02	TUN	BFB			06/12/08 10:52	1.0	2
003	ifc03	CCV	30PPB			06/12/08 11:12	1.0	3 4 5 1
004	ifc04	BS	QC446200	Water	139192	06/12/08 11:58	1.0	6 7 8 1
005	ifc05	BSD	QC446201	Water	139192	06/12/08 12:33	1.0	6 7 8 1
006	ifc06	X	IB			06/12/08 13:08	1.0	1
007	ifc07	BLANK	QC446199	Water	139192	06/12/08 13:43	1.0	1
008	ifc08	MSD	QC446069	Water	139134	06/12/08 14:18	1.0	6 7 8 1
009	ifc09	SAMPLE	203868-001	Water	139192	06/12/08 14:53	1.0	1
010	ifc10	SAMPLE	203857-004	Water	139192	06/12/08 15:27	1.0	1
011	ifc11	SAMPLE	203857-005	Water	139192	06/12/08 16:02	1.0	1
012	ifc12	SAMPLE	203857-006	Water	139192	06/12/08 16:36	1.0	1
013	ifc13	SAMPLE	203857-007	Water	139192	06/12/08 17:11	1.0	1
014	ifc14	SAMPLE	203857-008	Water	139192	06/12/08 17:45	1.0	1
015	ifc15	SAMPLE	203857-009	Water	139192	06/12/08 18:20	1.0	1
016	ifc16	SAMPLE	203857-010	Water	139192	06/12/08 18:54	1.0	1
017	ifc17	SAMPLE	203901-006	Water	139192	06/12/08 19:29	1.0	1
018	ifc18	SAMPLE	203901-007	Water	139192	06/12/08 20:03	1.0	1
019	ifc19	SAMPLE	203901-008	Water	139192	06/12/08 20:38	1.0	1
020	ifc20	SAMPLE	203901-009	Water	139192	06/12/08 21:12	1.0	1
021	ifc21	SAMPLE	203901-010	Water	139192	06/12/08 21:47	1.0	1
022	ifc22	SAMPLE	203881-001	Water	139192	06/12/08 22:22	16.67	1
023	ifc23	X	IB			06/12/08 22:56	1.0	1
024	ifc24	X	IB			06/12/08 23:31	1.0	1
025	ifc25	X	IB			06/13/08 00:06	1.0	1

ACM 06/12/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 8.

LW 06/12/08 : Sequence reviewed through file IFC08

MJD 06/13/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 9 through 22.

ACM 06/13/08 : Full sequence now reviewed.

Analyst: MJD

Date: 06/13/08

Reviewer: ACM

Date: 06/13/08

Standards used: 1=S9421 2=S9454 3=S9221 4=S9084 5=S9036 6=S9446 7=S9456 8=S9290

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GC/MS VOLATILE ORGANICS

Batch #: 139094

Water Sample Prep Sheet

	Sample Number	Sample Vial	pH	Head space?	Shelf	Dil'n Flask	MS#	Comments	Initials & Date
1	203769-007	D	<2				09	IX RR 5% w/ spike Low	
2	-008	L	L						
3	-009	F G H I	<2					MSS / MS / MSD	
4	-010	D							
5	-011	L							
6	203772-004	C					IX		
7	-005								
8	-006								
9	-007								
10	203801-001	B							
11	L -002	I	L						
12	203774-009		<2			16	RR	4X, OD cis 1,2 DCE / TCE hits	
13	203810-003		L			17	L	2.5X, cis 1,2 DCF > LR	
14	203803-001		<2				TB		
15	L -002		L				IX		
16									
17									
18									
19									
20									
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30									
31									
32									
33									
34									
35									

GOMING VOLATILE ORGANICS

Batch #: 139134

Water Sample Prep Sheet

Sample Number	Sample Vial	pH	Head space?	Shelf	Dil'n Flask	MS#	Comments	Initials & Date
1 203803-003	B	<2				09	IX	N. CLEAN MB
2 -004		1						
3 -005	CDE	<2					MSS /MS /MSD	1
4 203858-001	A						TB	
5 -002							IX	
6 -003								
7 -004								
8 -005	1							
9 -006	B						IX	
10 -007	A						IX	
11 -008							1	
12 -009	1							
13 -010	B						IX	
14 203774-014	C	+					RR IX , FRID hit w/ curve A)	
15								
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17								
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30								
31								
32								
33								
34								
35								

DOING VOLATILE ORGANICS

Batch #: 139 192

Water Sample Prep Sheet

Sample Number	Sample Vial	pH	Head space?	Shelf	Dil'n Flask	MS#	Comments	Initials & Date
1 203803 - 5	F G H	<2				9	16 MS/MS) Limited sample (MS broken) Run MSD only	
2 203881 - 1	B	1			5	1	16.7x (Acetone)	1/26/08
3 203868 - 1	↓ C	<2				1	IX	
4 203857 - 4	A					1	IX	
5	5							
6	6							
7	7							
8	8							
9	9							
10	10	↓						
11 203901 - 6	A					1	IX	
12	7					1	IX	
13	8					1		
14	9					1		
15	10	↓	↓		↓	1	IX	
16								
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Manual Integrations for 203803 MSVOA Water
Curtis & Tompkins Laboratories

Type	Sample ID	Analyte	Instrument	Analyzed
SAMPLE	203803-001	Acetone	MSVOA09	06/10/08 15:20
SAMPLE	203803-004	cis-1,2-Dichloroethene	MSVOA09	06/11/08 21:19



Letter of Transmittal

To: Ms. Frances Fadullon, RPM
Company: BRAC PMO WEST
1455 Frazee Road, Suite 900
San Diego, CA 92108-4310
(619) 532-0935

From: Ken Leonard
Date: 12/12/08
Project # 07033.0015
DCN# ITSI-6403-0015-0028
DCN# ITSI-6403-0015-0030
DCN# ITSI-6403-0015-0031

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- For Review & Comment Approved As Submitted Resubmit _____ Copies for Approval
 For Approval Approved As Noted Return _____ Corrected Prints
 For Information Return for Corrections Other:
-

No.	Copies	Date	Title
1	1	12/12/08	Alameda Basewide Summer Non-Routine Groundwater Sampling Event: AOC 23, CAA-6, and IR Site 32, November 2008, Alameda Point, Alameda, California

Please call me at (925)-946-3263 if you have any questions regarding this submittal. Thank you.
Ken Leonard